SERVICE MANUAL
V585.G2

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FASEP 2000 srl
Via Faentina, 96
50032 Ronta (Fi) Italy
Tel +39 055 8403126
Fax +39 055 8403354
E-mail info@fasep.it
WWW www.fasep.it

VIDEOTRONIC V585.G2
USER'S MANUAL

For any information, please contact:

e-mail:

www.fasep.it
info@fasep.it

FASEP 2000 srl
Via Faentina 96
50030 Ronta (Fi) Italy
Tel. #39 055 840 3126
Fax #39 055 840 3354

WARNING

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.Prior of the installation of the unit described in this manual, user should read this manual carefully to be instructed properly on installation, use and maintenance of the unit.

.***Failing to read this manual and operate accordingly may cause damage to the user or the unit****.*

.FASEP 2000 srl shall not be responsible for inconvenience, breakdown, accidents due to uncomplete knowledge of this manual or uncomplete application of raccomendations described in this manual.

.FASP 2000 srl shall not be responsible for inconvenience, breakdown, accidents due to unauthorized modifications of the unit, use of non-original or unauthorized accessories (see Accessories listing in this manual for a list of original accessories available for this model).

.***FASEP 2000 srl shall not be responsible for any inconvenience, breakdown, accidents caused directly or indirectly by not qualified service. Service to any parts by not qualified persons will void warranty and will void any right of the owner of the unit.***

SYMBOLS AND CONVENTIONS
To speed the retrieval of main information and make easy to understand the instructions, this manual uses the following typing conventions:

<NAME OF THE PUSH BUTTON>		Used to indicate name of push-buttons on the control panel.
DISPLAY		Used to indicate text or number visible on the displays on the control panel.
☺	**ADVICES**	Contain useful advices or solutions, evidence d with respect to the rest of the text.
☝	**NOTE**	Notes contain important information, evidenced to the rest of the text.
✋	**WARNING**	Warning messages appears corresponding to procedures that, if not properly observed, may lead to loose of data or cause damage to the unit.
⚠	**CAUTION**	Caution messages appears corresponding to procedures that, if not properly observed, may cause injuries to the user.

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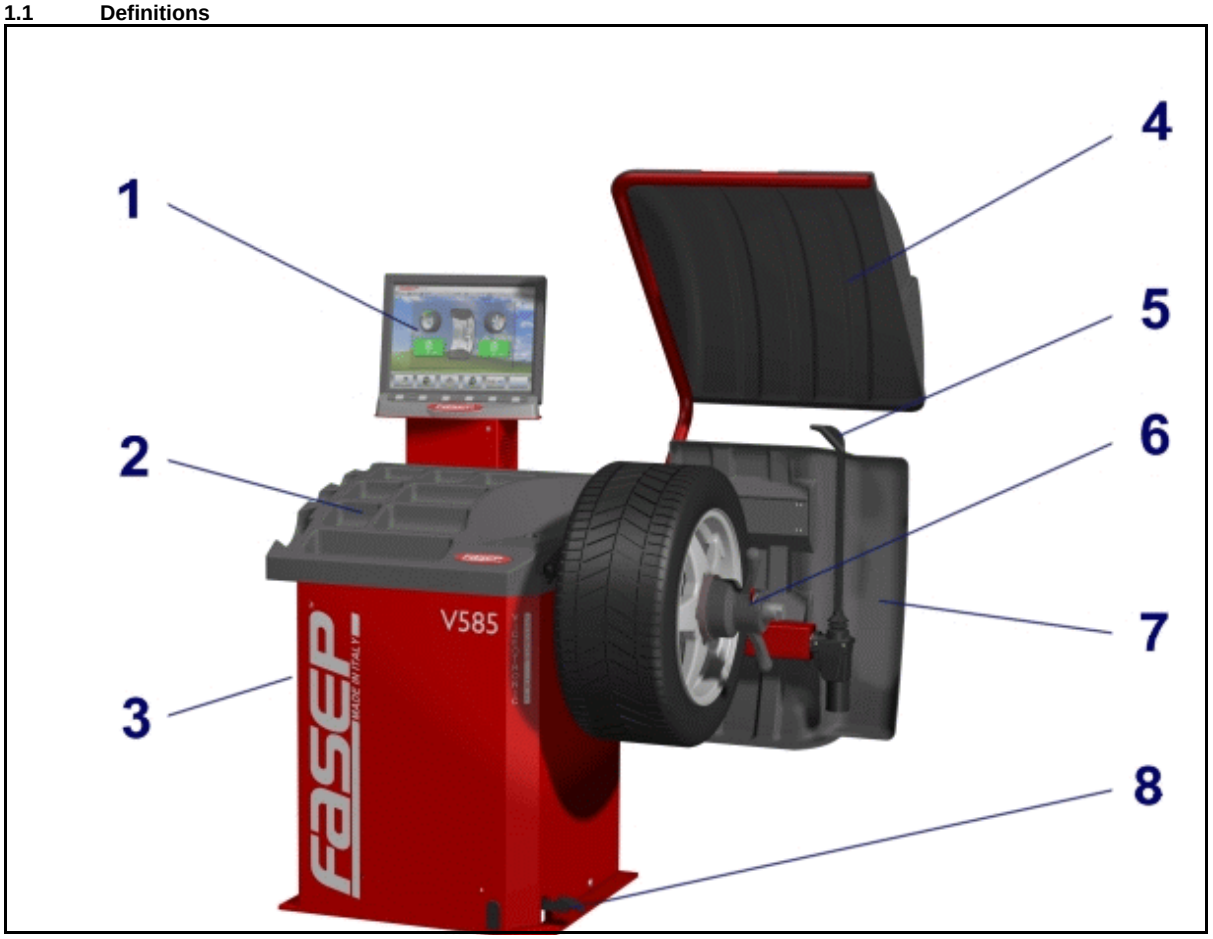
1 PRESENTATION

1.0 Intended Use

This unit is designed to measure and correct static and dynamic unbalance of vehicle wheel, the dimension and weight of which are within the working range of the machine (see "Technical Data"appendix for reference)
This unit is meant for a professional use. Operator shall be properly trained before use. Training Course is not included in the price of the unit and must be purchased separately.
This unit is designed for indoor use only (see "Environmental Data"appendix for reference).

CAUTION: *This unit is designed to spin vehicle wheels only, within the range of dimensions and weight approved (see "Technical Data"appendix for reference). Special adaptors suit this purpose. Do not attempt to use the machine to spin anything else. Unproper locking may cause the part being spinned to be ejected, causing damage to the unit itself, the operator or anything in the in the neighboorhood.*

1.1 Definitions

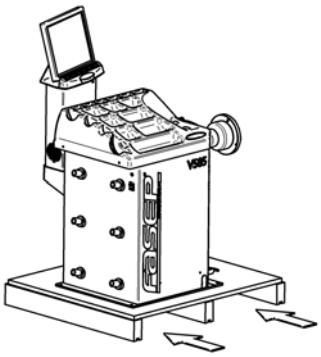


1. Monitor
2. Weights and tools trays
3. Side flange-holders
4. Wheel guard
5. EMS External Measuring system (optional)
6. Quick lock + HD shaft
7. Lower wheel guard (optional)
8. Foot-pedal

2 INSTALLATION

2.1 Moving the unit

WARNING *When the unit has to be moved: never lift balancer by motor shaft or by neighborhood of it.*



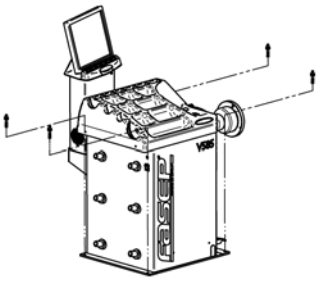
2.2 Assembling the unit

For ease of transportation, the wheel balancer might be disassembled into units. If necessary, assembling instruction are provided within each package..

2.3 Installation

The wheel balancer must be installed on a firm and level ground.

NOTE: *the machine must be secured to the floor. Using four holes in the base and anchor bolts provided*



2.4 Electrical Hookup

CAUTION: *Failure to follow these instructions can results in damage to unit or create an electrical hazard and will void warranty..*

2.4.1 Electrical hookup is to be provided by a qualified electrician.

2.4.2 A fusible wall-mounted switchbox is required at the installation site. This switch should provide on-off control and overload protection for your wheel balancer only. The switchbox should be fused with time-delay fuse(s) in accordance with the power rating specified on your wheel balancer.

2.4.3 Electrical connection of the machine should be by plug connectors.

2.4.4 The balancer must be effectively connected to ground. The electric cord is regularly provided with a ground terminal.

2.4.5 Make sure that Power Rate Specifications for your wheel balancer (refer to nameplate on the wheel balancer) comply with those provided by the external power source.

CAUTION *After electrical hookup has been performed unit is ready to operate. Always observe pertinent safety precautions when operating the unit (see Appendix tables for an overview of relevant Safety requirement).*

2.5 Compressed air Hookup (PL models only)

CAUTION *Failure to follow these instructions can result in damage to unit or create a hazard and will void warranty.*

1. *Compressed Air hookup is to be provided by a qualified technician, under the local safety requirements, in line with relevant national standards and regulations. All fitting and hoses must conform to local codes.*
2. *A wall-mounted lubricator and water-separator is required at the installation site.*
3. *Compressed Air circuit to the balancer shall be regulated to a maximum pressure of 7 atm. Overpressure could compromise cylinder operation.*

2.5.1 CONNECT TO AIR SUPPLY:
The machine is fitted with a universal connector and therefore no other special or additional fitting is required. Push all the way onto the connector a high pressure rubber air-hose and secure it.

3 USE OF CONTROL PANEL

Fig. 5 Panel V585

3.1 Meaning of the icons on the screen

Fig. 6

Select balancing mode

Fig. 7

APS Function

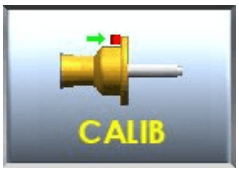


Fig. 8

Calibration

Fig. 9

Delete last character in input activation code

Fig. 10

Change selection

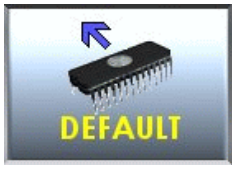


Fig. 11

Set default values

Fig. 12

Diagnostic

Fig. 13

Key down

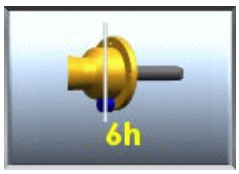


Fig. 14

Position calibration

Fig. 15

Go to previous page

Fig. 16

Fine resolution

Fig. 17

Access to Information center

Fig. 18

Access to page measures

Fig. 19

Laser calibration

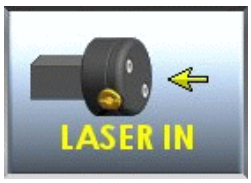


Fig. 20

Put in the rod laser in rest position

Fig. 21

Start laser

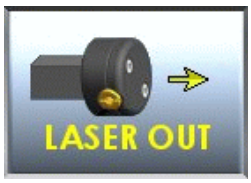


Fig. 22

Extract fully rod laser

Fig. 23

Manul input measures

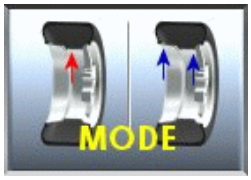


Fig. 24

Set Dynamic/Static

Fig. 25

Mode moto

Fig. 26

Key SET/OK

Fig. 27

Double operator

Fig. 28

Optimize

Fig. 29

Restart software

Fig. 30

Reset partial statistics

Fig. 31

Reset variation in page Sensor

Fig. 32

Save

Fig. 33

Set measures

Fig. 34

Go to setup menù

Fig. 35

Skip current operation

Fig. 36

Split function

Fig. 37

Stop turning wheel

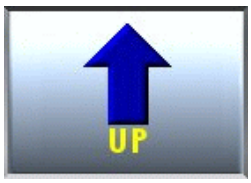


Fig. 38

Key up

Fig. 39

View menù and selection (UP/DOWN)

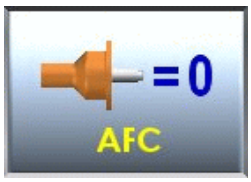


Fig. 40

Automatic flange calibration

4.0 CALIBRATION OF WHEEL BALANCER

4.1 How to calibrate the wheel balancer

NOTE: *the following symptoms indicate need for calibration::*

a) check calibration program fails.
b) constant low or high weight readings.
c) indicated point of unbalance constantly wrong
d) more than 2 spins required to balance wheels repeatedly.

Fig. 41

Switch on the wheel balancer.

Select **SET UP > CALIBRATION > SET/OK > CALIBRATION > SET/OK.**

Spin with no wheel on shaft (Fig. 42)

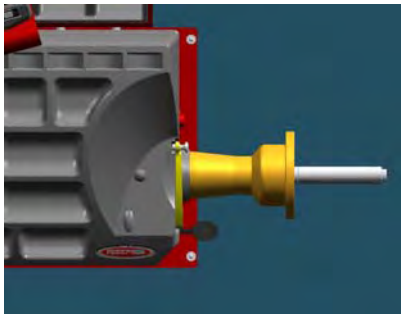


Fig. 42

Close the wheel guard or press **<START>**.

At the end of the spin, put a wheel (Fig. 43) and close the wheel guard or press **<START>**.

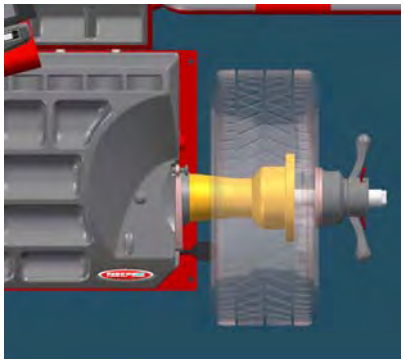


Fig. 43

At the end of the spin, put the calibration weight (Fig. 44) and close the wheel guard or press **<START>**.

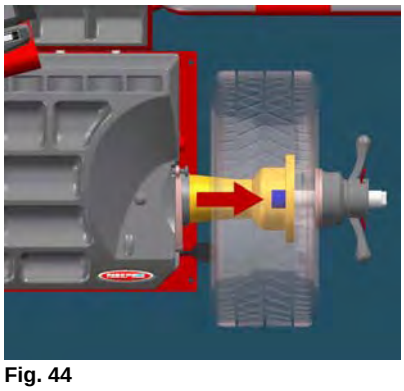


Fig. 44

4.2 How to control the calibration of wheel balancer and position weight

Fig. 45

Switch on the wheel balancer.

Select **SET UP > CALIBRATION > SET/OK > CHECK CALIBRATION > SET/OK.**

Put a wheel on the shaft and press **<START>** (Fig.46).

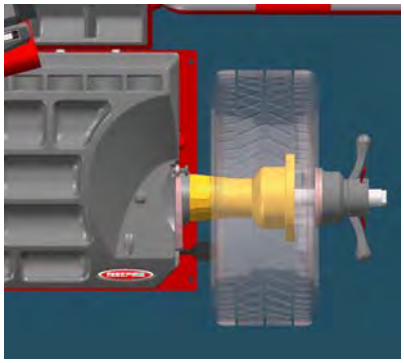


Fig. 46

Put the calibration weight (Fig.47) and press **<SET/OK>**.

Close the wheel guard or press **<START>**.

At the end of the spin, **160-0** will show on the video (tolerance allowed is ±10).

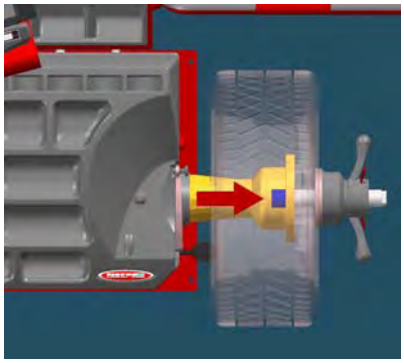


Fig. 47

Put the weight at 6h o'clock: the weight indicators of internal side must be both green.

If not, press **<6h>.**

Put the weight at 6h o'clock and press **<SET OK>**.

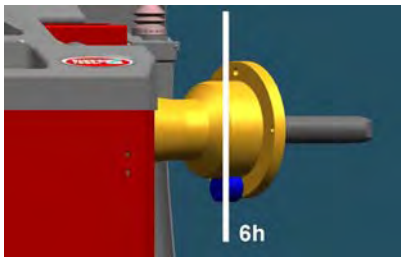


Fig. 48

5 Calibration ALU-SE

Switch on the wheel balancer.

MAIN MENU > MENU > RESET > **CALIB** > **ALU-SE CALIBRATION** > **SET/OK** (fig..49).

Put the rod on rest position (fig.49) and press **SET/ OK.**

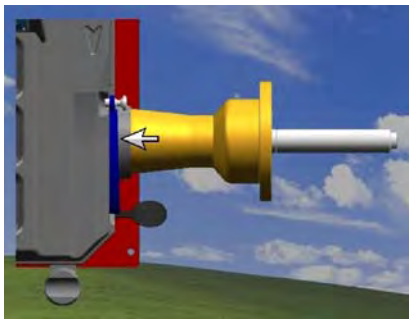


Fig. 49

Put the rod on the flange (fig.50) and press **SET/ OK.**

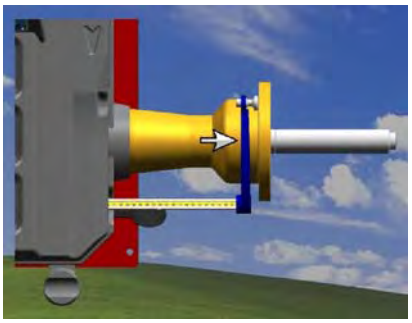


Fig. 50

Select width of wheel

Put the rod on internal side of the rim (fig.51) and press **SET/OK.**

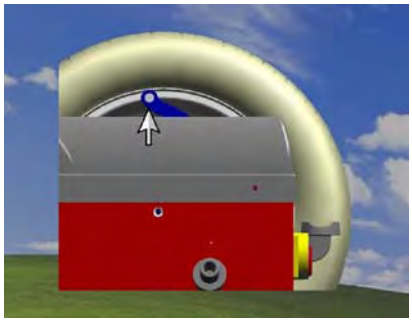


Fig. 51

Press **<ESC>** to go back to standard use.

6 Calibration SME

Switch on the wheel balancer.

MAIN MENU > MENU > RESET > **CALIB** > **SME CALIBRATION** > **SET/OK** (fig. 52)

Put the rod on rest position (fig. 52) and press **SET/ OK.**

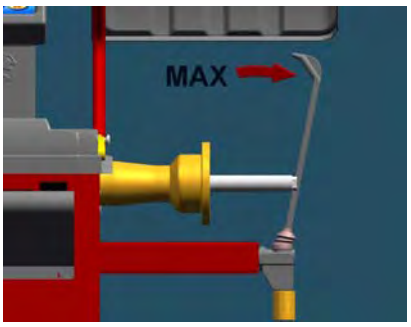


Fig. 52

Put the rod (fig. 53) and press **SET/OK.**

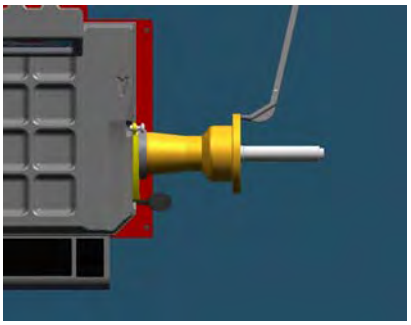


Fig. 53

Press **<ESC>** to go back to standard use.

7 MEASUREMENT AND CORRECTION OF UMBALANCE

7.1 Placing the wheel rim on the wheel balancer

7.1.1 Select the cone or flange suitable for the wheel to be balanced. Specific mounting instructions are delivered with each flange

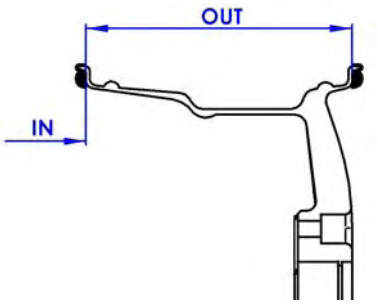
NOTE: *the operation of centering and tightening of the wheel on the flanges is of basic importance for correct balancing. Good results depend on proper performance of these procedures.*
To accurately clean up the superficial ones of connection before whichever operation.

CAUTION: *Always make sure flanges are correctly locked on the motor shaft and wheel is correctly locked on the flange being used.*

7.2 Input of Rim Dimensions (external measuring system version)

for V65x, V64x, V55x-D (automatic input of all data)

NOTE: AUTOSELECT function allows automatic selection of balancing system (Dynamic, ALU-S1, ALU-S2)



MAIN MENU

Insert the distance (fig.55).

Insert the width (fig.56).

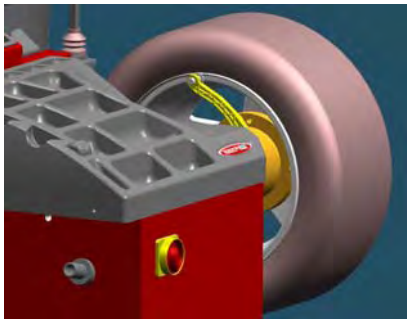


Fig. 55: Distance

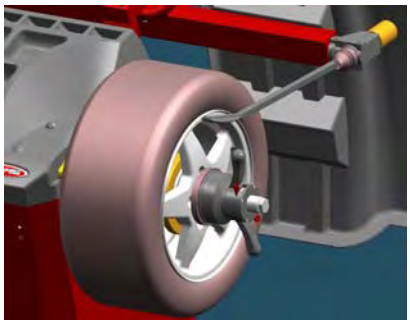
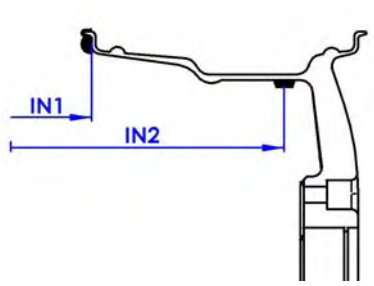


Fig. 56: Width

7.3 Input of Rim Dimensions (ALU-SE or LASER version)



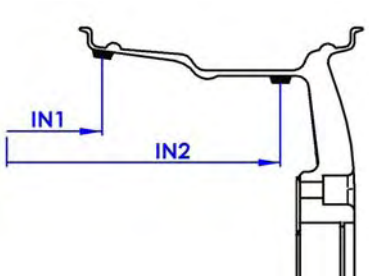
MAIN MENU > INPUT

Press **ALU MODE** untill the required position of weight is on the video (fig.57).

Insert the distance (IN1).

Insert the distance (IN2).

Fig. 57



Press **ALU MODE** untill the required position of weight is on the video (fig.58).

Insert the distance (IN1).

Insert the distance (IN2).

Fig. 58

7.4 Detecting and correcting umbalance

7.4.1 After setting wheel dimensions, press **<START>** or close the safety cover to spin the wheel and start the measurement run.

⚠ **CAUTION:** *wheel start automatically when safety cover is closed.*

7.4.2 At the end of the spin the wheel will brake automatically and the display will show the weight position and weight requirement to correct the wheel's umbalance.

7.4.3 Apply the weights (fig.59, fig.60). If umbalance shown is 0, press **<FINE>** to show residual umbalance.

Fig. 59

Fig. 60

7.5 How to apply the weight using ALU-SE applicator

Fig. 61

Place the weight as in the picture 62.

Turn the wheel until reach the application position of the weight (fig. 61).

Move the rod until reach the application position of the weight.

Apply the weight(fig. 63).

Repeat the procedure for the other side.

.

Fig. 62

Fig. 63

7.6 How to apply the weight using LASER

Fig. 64

Turn the wheel until the position weight indicators of one side are both green (fig. 64).

The laser come out to show the point of application of the weight (fig. 65).

Apply the weight on the laser dot.

Repeat the procedure for the other side.

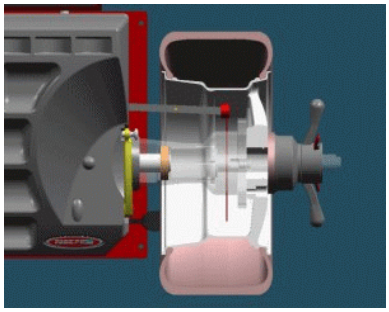


Fig. 65

7.7 How to use SPLIT Program

After the measurement spin

Press **<SPLIT>** to select the program.

Turn the wheel until first spoke (green position) is at 12 0' clock.

Press **<SET/OK>** to confirm.

Turn the wheel until second spoke (red position) is at 12 o' clock

Press **<SET/OK>** to confirm the red position.

Balance the wheel applying weight on green and red positions.

8 HOW TO OPTIMIZE UNBALANCE OF THE WHEEL

8.1.1 MAIN MENU > OPTIMIZE

Measure the unbalance of the rim only (fig. 66).

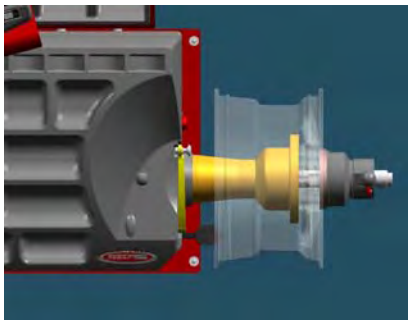


Fig. 66 first spin, rim only

Mount the tire on the rim and put the wheel on the shaft (fig.67).

Spin the wheel

Select the optimization and follow the video instruction.

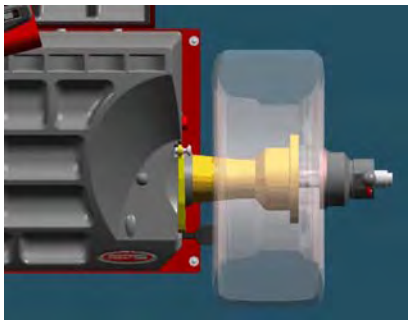


Fig. 67 second spin, complete wheel

WARNING: *Balancing with flanges, put the accessories assembled to the rim during the complete operations.*

NOTE: *Selection of optimization: the green solution is the advised from the machine. The user can be choose also one of the other.*

9 SPECIAL FUNCTIONS

9.1 Language selection

9.1.1 MAIN MENU >SET UP > USER SET UP > LANGUAGE > SET OK >.
9.1.2 Select the language and press SET OK.

9.2 Setup

9.2.1 MAIN MENU >SET UP > USER SET UP .

9.2.2 Select item and press SET OK.

APPENDIX

A: Technical data

Power requirement	400W	
Speed Balancing	98RPM	
Measuring time	4-15 s.	
Accuracy	±1grammo (±1/28 once)	
Wheel Dimensions	**Diameter Rim diameter**	8" (200 mm) - 26" (650 mm)
	Rim Width (with wheel-guard)	max 16" (415mm)
	Wheel Weight	max 90 Kg (198Lbs)

Wheel balancer dimensions

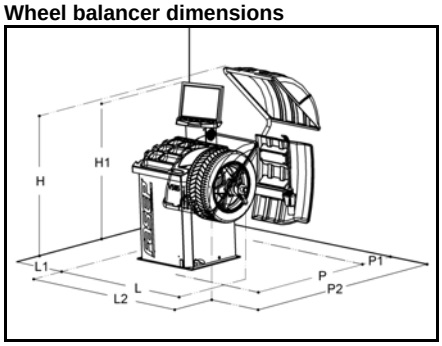


Fig. 68: Measures

	V585
L (mm)	1030
L1 (mm)	500
L2 (mm)	1130
P (mm)	960
P1 (mm)	200
P2 (mm)	1390
H (mm)	1500
H1 (mm)	1270
Peso (kg)	116

B: Environmental Data, Safety Features and Requirements

Environmental Data

[*Operating conditions*]
This unit is designed for indoor use only.
Temperature: 0 to 45˚C
Relative Humidity: 5 to 80% a 40˚

[*Storage conditions*]
Package is designed for indoor storage only.
Temperature: -25˚ to 70˚C
Relative humidity: 5 at 95% to40˚C

Safety Features

1. The Balance Weights Holder may be removed for servicing. It is secured to the machine body through screws so that only voluntarily it may be removed. Removal of this protection is therefore restricted to Authorized Service Engineers.
2. The Control Panel may be removed for servicing. It is secured to the machine body through screws so that only voluntarily it may be removed. Removal of this protection is therefore restricted to Authorized Service Engineers.

CAUTION: *The safety cover is anyway required when using the motorcycle adapter.*

WARNING *FASEP 2000 srl shall not be responsible for any inconvenience, breakdown, accidents caused directly or indirectly by unauthorized service. Service to any parts by unauthorized engineers will void warranty and will any right of the owner of the unit..*

NOTE: *As this unit runs at speed below 100rpm, a safety cover is not required. However a safety cover is recomended when balancing wheels with diameter bigger then 20".*

General Safety Requirement

[*before using/servicing this unit*]

1. Read this instruction sheet and the whole user's manual before operating or servicing the wheel balancer.
2. Make sure electrical power source conforms to requirements shown on nameplate (see also model identification chart for reference).
3. Make sure the unit has a stable position.

[when using the unit]

4. Protect power leading to the unit from damage.
5. When work area is being washed, make sure unit is adequately protected.
6. Remove all stones and mud lodged in tire treads before balancing the wheel.
7. Do not touch spinning wheel. Always use Safety Safety cover to be protected.
8. Make sure counterweights are securely attached before checking residual umbalance.

[when servicing the unit]

9. Make sure power sources are disconnected before service on the unit is performed.
10. Service to PCB, electrical and mechanical parts should be done only by an Authorized FASEP 2000 Service Center.

C: Errors and Malfunctions recognized by the Computer
Errors may apply to some model only.

ERR 1: Shaft does not rotate
ERR 2: Rotation Direction is wrong
ERR 3: Rotation speed is not ready
ERR 4: Rotation speed is wrong (too low or too high)
ERR 5: Position Sensor or Position Disk failure
ERR 6: Safety Safety cover is open
ERR 7: Measuring cycle was interrupted
ERR 8: Calibration weight was not inserted.
ERR 9: Activation code not correct
ERR 10: Overflow in calculations
ERR 11: Serial number is wrong
ERR 12: Serial number not inserted
ERR 13: Reserved
ERR 14: Uncorrect password
ERR 15: E^2prom error
ERR 16: Calibration memory error
ERR 17: Rod in uncorrect position
ERR 18: Excessive weight detected
ERR 19: Reserved
ERR 20: Reserved
ERR 21: Error in inputting data
ERR 22: Brake error
ERR 23: Substance change due to shakes
ERR 24: Reserved
ERR 25: Reserved
ERR 26: Reserved
ERR 27: Insufficient pressure

How to check calibration of Automatic Measurement input Systems of Wheel Balancers

NOTE: *The wheel balancer we are checking can have a shaft or a flange different than the ones showed in the following images. The important thing is to bring the rod to touch to the internal side of the flange and to identify the correct issue on the reference tables*

ALU-SE ROD

Bring the rod to touch the flange, as showed in **Fig. 4**

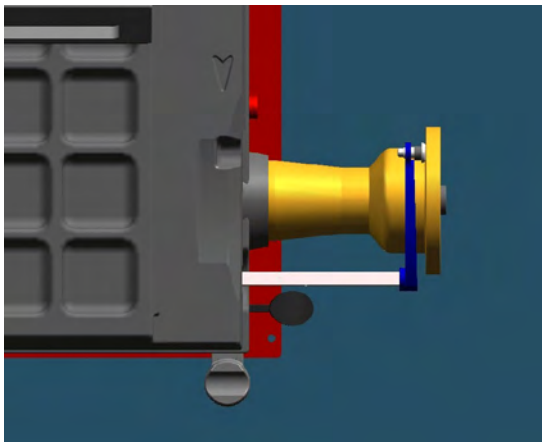


Fig. 4

Timeframe		Issue of mechanical assy	
From	To	HD/PL	LS
March 1998	February 2003	287 mm	
February 2003	-	307 mm	
December 2001	-		313 mm

SENSONIC ROD

Bring the rod to touch the flange, as showed in **Fig. 5**

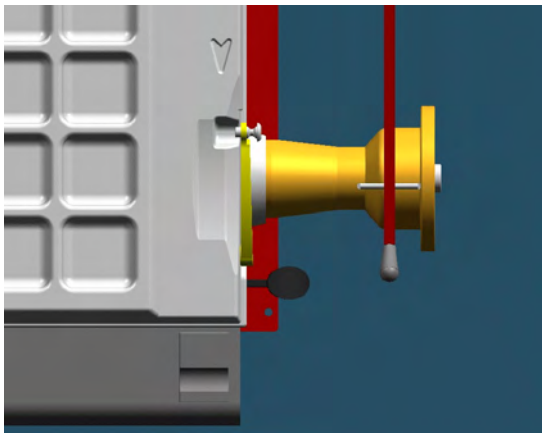


Fig. 5

Timeframe		**Type of machine**			
From	To	B-NEXUS	UTR/VDT/VDT2-CA/VDT92	VDO2/V571	V572/V573
-	December 1996		209 mm		
October 1995	January 2003			292 mm	
January 1996	February 2003	292 mm			
March 2003	-				313 mm

NOTE: *Before to check, make sure that there is not memorized a distance value. In this case press RESET to go to MAIN MENU.*

Bring the rod to touch the flange, as showed in **Fig. 6**

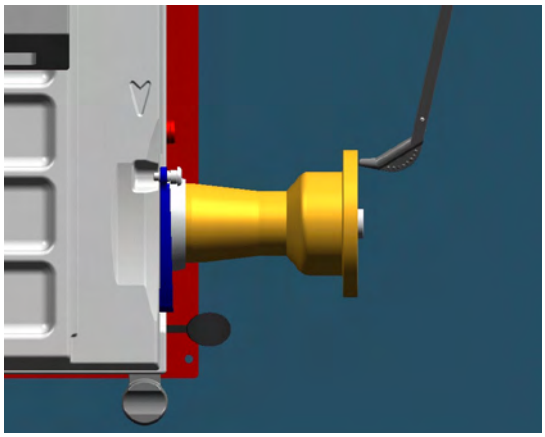


Fig. 6

Timeframe		**Type of machine**			
From	To	V551	V552/V553/V652	V651	B306/V642
September 2001	March 2003	316mm (12,5")			
March 2003	-		336mm (13")		
June 2002	June 2003			316mm (12,5")	
May 2003	-				336mm (13")

Come calibrare i Sistemi Automatici di Misura su VDO

CALIBRAZIONE ASTA ALU-SE

MENU PRINCIPALE > UTILITY > ALU-S CALIBRATION
Posizionare l'asta come in **Figura 1** e premere **OK**
Posizionare l'asta come in **Figura 2** e premere **OK**
Posizionare l'asta come in **Figura 3** (cerchio di 14")
Premere **OK**

How to calibrate Electronic Input Systems on VDO

ALU-SE ROD CALIBRATION

MAIN MENU > UTILITY > ALU-S CALIBRATION
Place the rod as **Figure 1** and press **OK**
Place the rod as **Figure 2** and press **OK**
Place the rod as **Figure 3** (14" rim)
Press **OK**

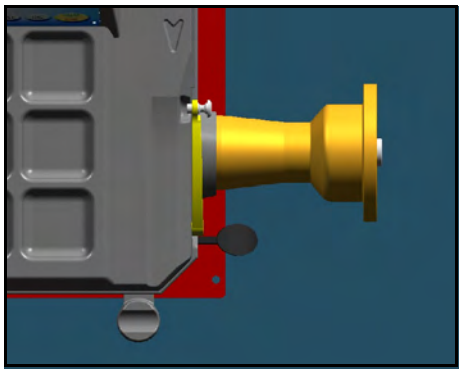


Figure 1

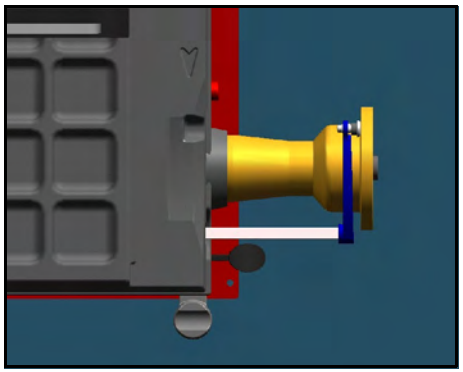


Figure 2

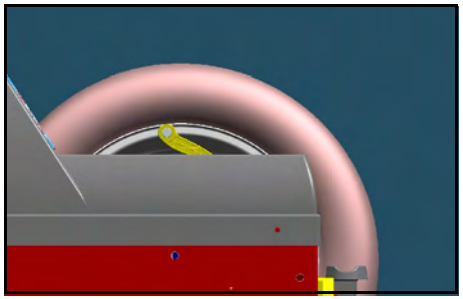


Figure 3

CALIBRAZIONE ASTA SENSONIC

MENU PRINCIPALE > UTILITY > CALIBRATION
Posizionare l'asta come in **Figura 4** e premere **OK**
Posizionare l'asta come in **Figura 5** (massima estensione)
Premere **OK**
Posizionare l'asta come in **Figura 6** e premere **OK**
Posizionare l'asta come in **Figura 7** (cerchio di 14")
Premere **OK**

SENSONIC ROD CALIBRATION

MAIN MENU > UTILITY > CALIBRATION
Place the rod as **Figure 4** and press **OK**
Place the rod as **Figure 5** (maximum extension)
Press **OK**
Place the rod as **Figure 6** and press **OK**
Place the rod as **Figure 7** (14" rim)
Press **OK**

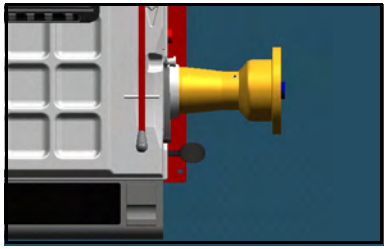


Figure 4

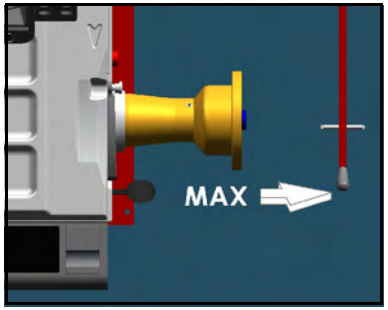


Figure 5

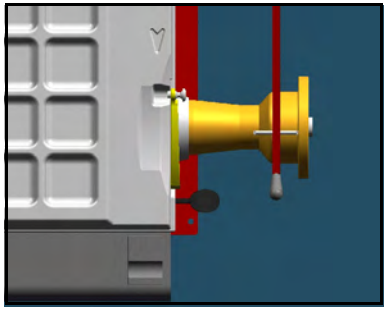


Figure 6

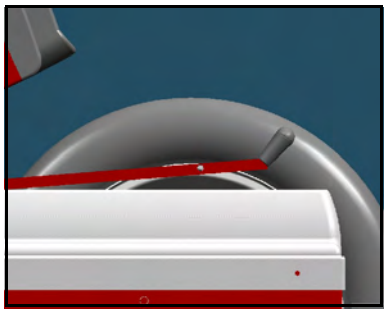


Figure 7

CALIBRAZIONE SME

MENU PRINCIPALE > UTILITY > CALIBRATION
Posizionare l'asta come in **Figura 8** e premere **OK**
Posizionare l'asta come in **Figura 9** e premere **OK**

SME ROD CALIBRATION

MAIN MENU > UTILITY > CALIBRATION
Place the rod as **Figure 8** and press **OK**
Place the rod as **Figure 9** and press **OK**

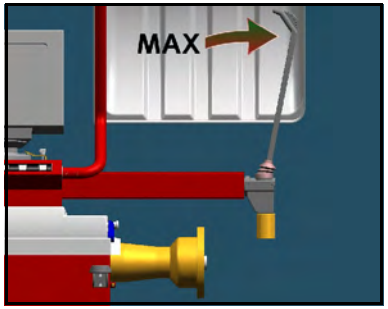


Figure 8

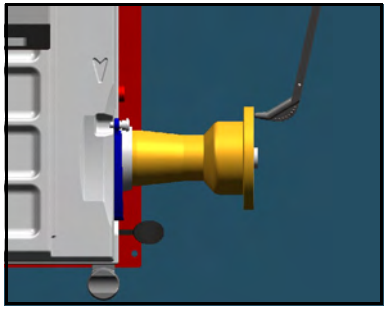


Figure 9

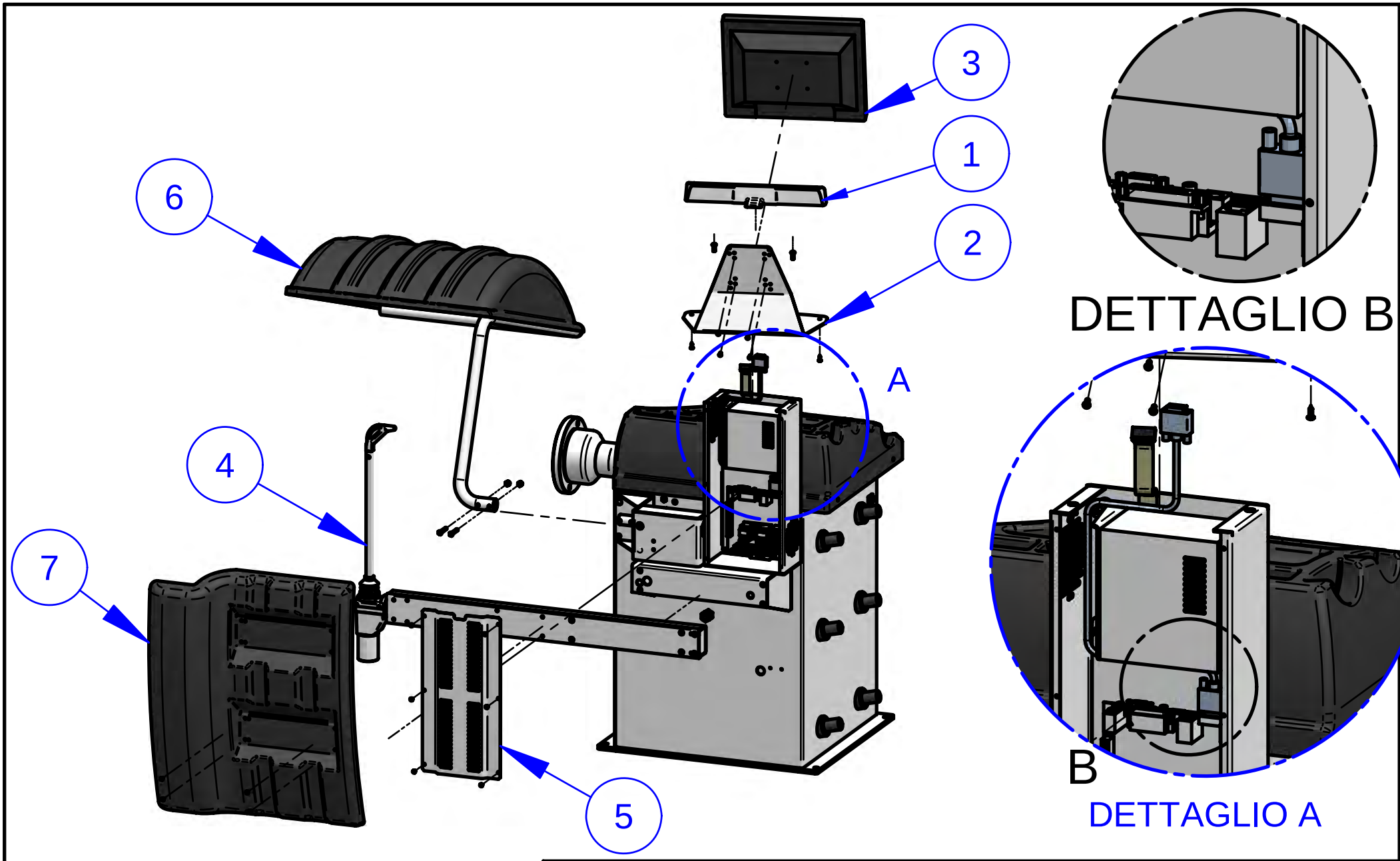
Come disabilitare il sistema LASER su VDO

1. Accendere la macchina
2. Premere il tasto **2 - UTILITY**
3. Premere il tasto **6 - DIAGNOSTIC**
4. Premere il tasto **1 - MENU**
5. Premere il tasto **2 - USER SETUP**
6. Inserire la password **1324**
7. Selezionare la voce **14: INDICATORE LASER**
8. Selezionare la voce **0: INDICATORE LASER DISABILITATO**
9. Selezionare la voce **0: USCITA** seguendo le indicazioni sullo schermo
10. Premere il tasto **6 - EXIT**
11. Premere un tasto per far ripartire il programma

❊

How to disable LASER system on VDO

1. Switch ON the machine
2. Press the key **2 - UTILITY**
3. Press the key **6 - DIAGNOSTIC**
4. Press the key **1 - MENU**
5. Press the key **2 - USER SETUP**
6. Insert the password **1324**
7. Select the item **14: LASER INDICATOR** following the instruction on the screen
8. Select the item **0: LASER INDICATOR DISABLED** following the instruction on the screen
9. Select the item **0: EXIT** following the instruction on the screen
10. Press the key **6 - EXIT**
11. Press any key to restart the program



DETTAGLIO B

DETTAGLIO A

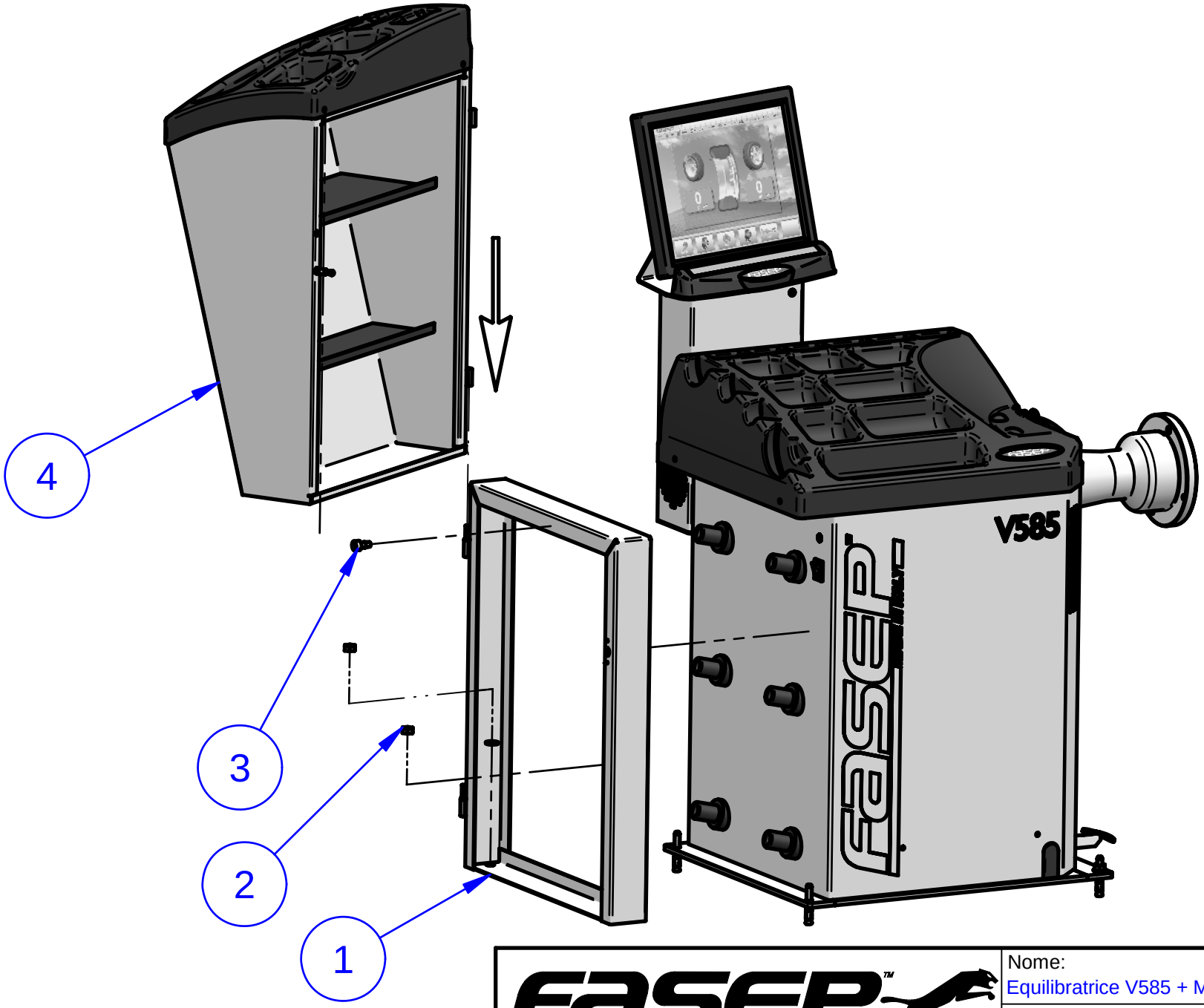
FASEP SINCE 1960

Nome:
Equilibratrice V585-xx

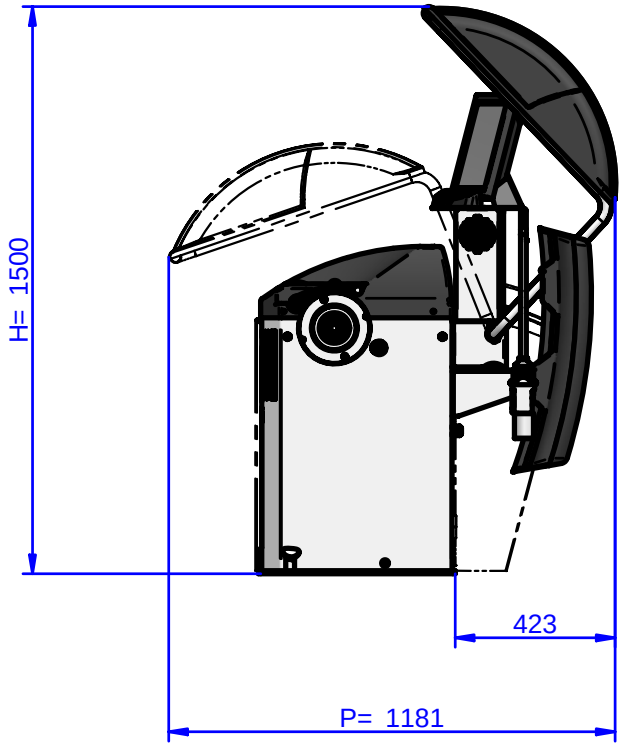
Cod. E538.xxx

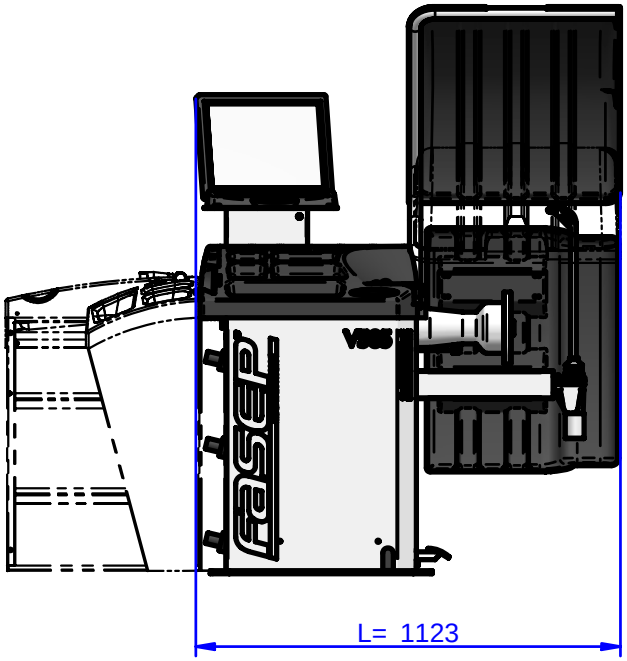
Rev: R2

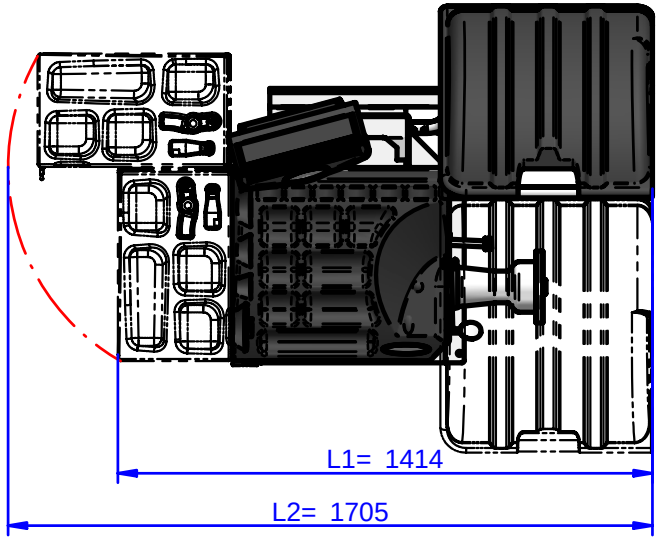
Data: 26/01/08



FASEP SINCE 1969	Nome: Equilibratrice V585 + Mobile Laterale		
	Cod. E538.xxx	Rev: R0	Data: 26/01/08





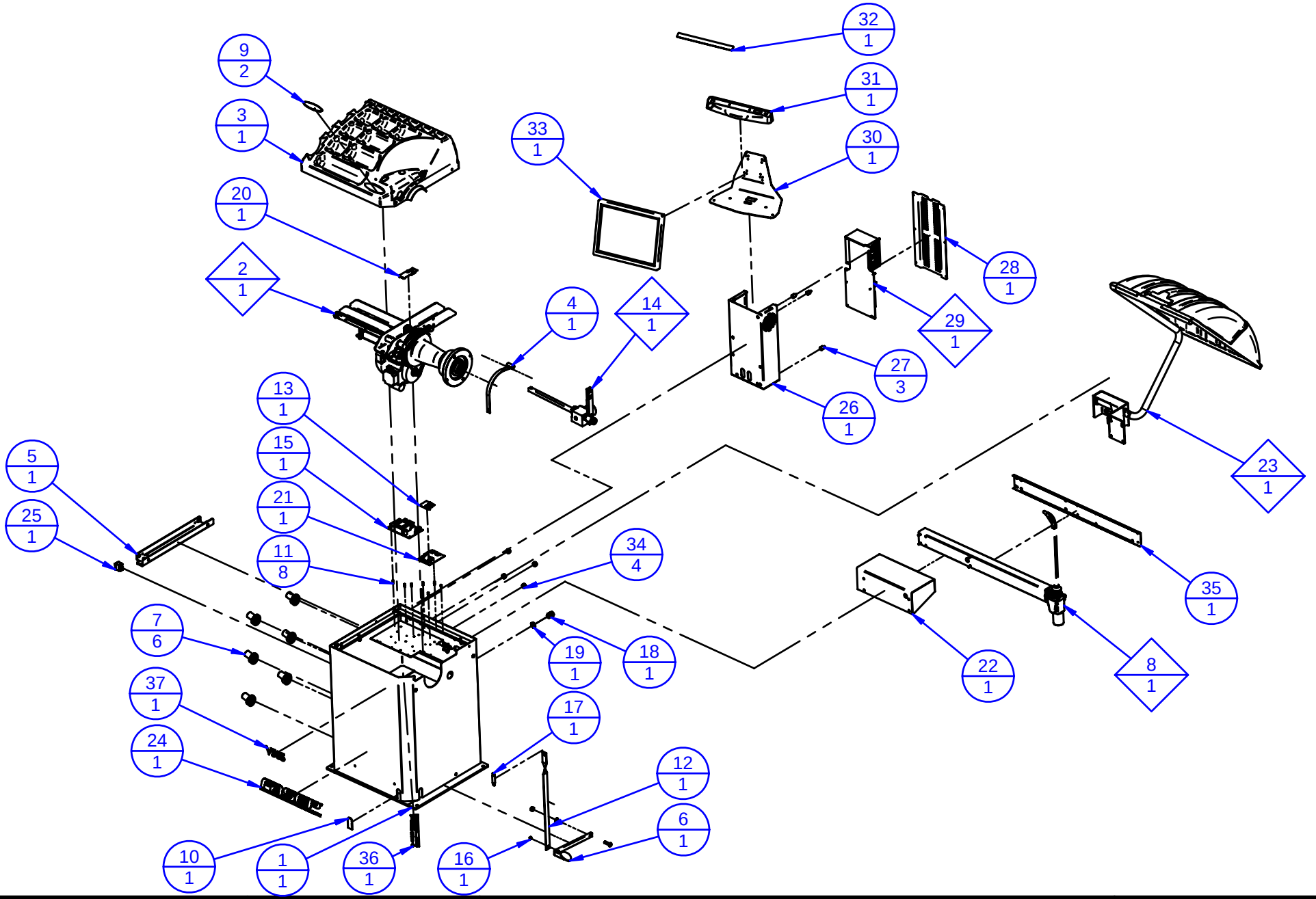


Dimensioni d'ingombro V585
Con e senza mobile laterale.

FASEP SINCE 1969

Nome:
Equilibratrice V585 + Mobile Laterale

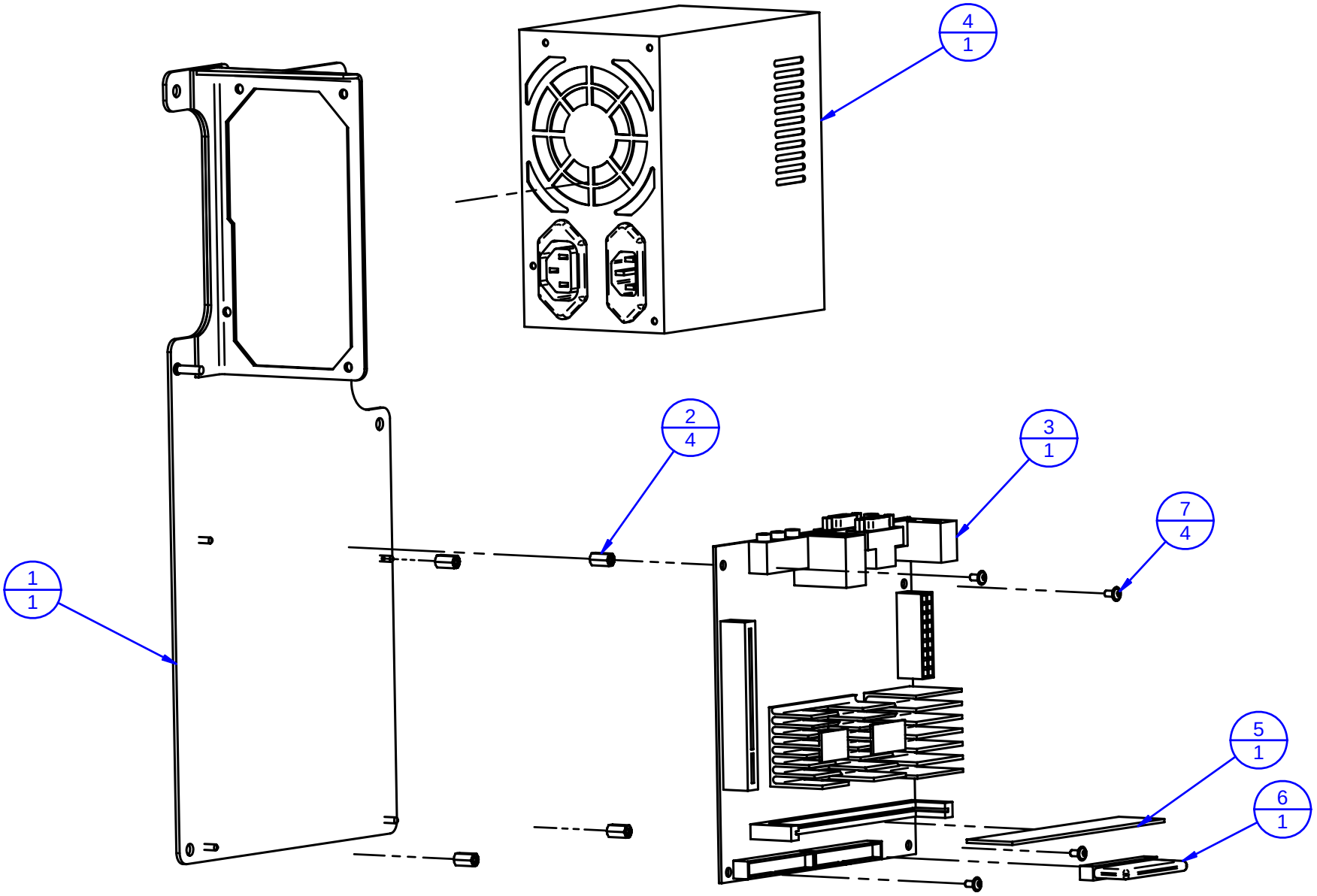
Cod. E538.XXX | Rev: R0 | Data: 10/04/08



Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number 1 Q.ty ◇ Sub-table exists	E538.xxx	Equilibratrice V585-xx VIDEOTRONIC Model V585	R1	09/07/07	FASEP 2000 s.r.l Ronta - Firenze - Italy

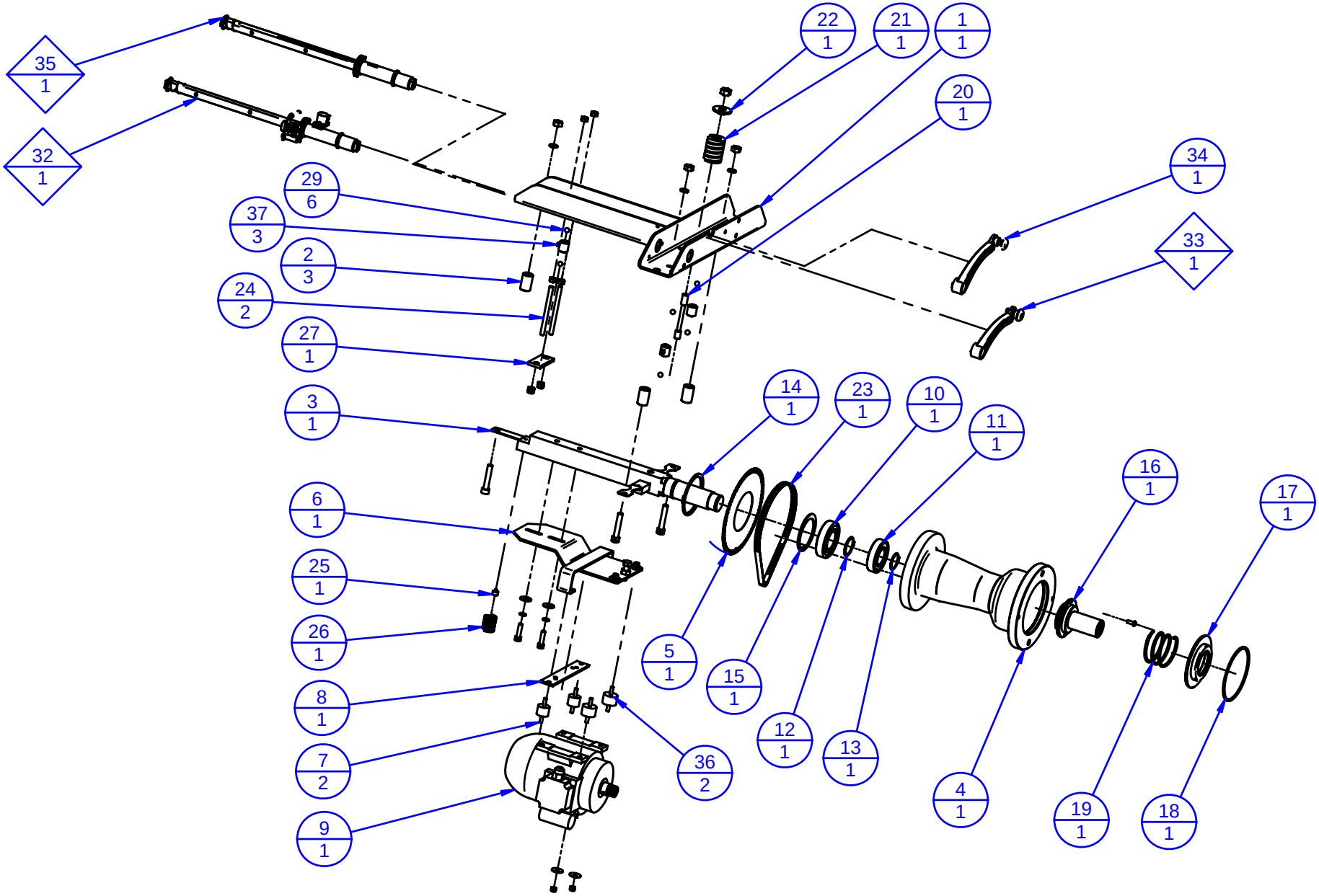
POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M3050	Basamento Equilibratrice Smussato	Base	1
2		3M657	Gruppo Oscillante HD3.2005 (98RPM)	HD3.2005 (98RPM) Motor assy	1
3		2M3055	Coperchio con vaschette bombato	ABS Cover	1
4		4M2292	Nastro freno	Brake-holder	1
5		4M2929	Aggetto laterale basamento	Projection	1
6		4M1957	Pedale freno x equilibratrici	Brake pedal	1
7		2M0160	Nasello Porta-flangia	Flange Holder	6
8		3M0574	Sistema Misura Esterno (SME)	External measuring rod assy	1
9		2M3381	Etichetta FASEP MI 121x28 Resinata	3D Sticker	2
10		2M2020	Tappo x asola freno	Plug	1
11		9E3222	Distanziale 3x10 M-F	Spacer	8
12		4M3076	Tirante freno corto	Brake lever	1
13	x	3ES523	Scheda 1139	1139 Board	1
14		3M2688-1CS	Gruppo Laser Convergente cablato	Convergent laser assy	1
15	x	3ES508-2	Scheda 1128	1128 Board	1
16		9M2499	Anello d'arresto 8SXN09	Ring	1
17		9M0083	Molla TR37	Spring	1
18		9E0810	Passacavo PG11	Wire tightener	1
19		9E2198	Controdado PG11	Nut	1
20	x	3ES524-2	Scheda 1140-02 Matroc 50Hz	1140-02 Board	1
21	x	3ES521	Scheda 1137-00	1137 Board	1
22		4M3132	Supporto SME per B32x, B44x, V58x	External measuring Holder	1
23		3M600	Carter copriruota	Safety cover	1
24		2M3334	Presp. FASEP Made in Italy 410x74 Bianco	FASEP Sticker	1
25		9E3056	Interruttore bipolare	Switch	1
26		4M3308	Schienale V58x	Rear Frame	1
27		9M3333	Puffer 1615-M5-MF	Vibration dampers	3
28		4M3310	Coperchio x schienale V58x	Cover	1
29		3M681	Gruppo Elettronico V585	Electronic Group V585	1
30		4M3311	Fascia Supporto Monitor V581	Monitor Support	1
31		2M2934	Supporto tastiera funzioni LCD15	Key Pad Support	1
32		2M2933	Tastiera Funzioni LCD15	Key Pad	1
33		9E3070	Monitor LCD 15"	LCD Monitor	1
34		4M1451	Distanziale ø20x10x10	Spacer	4
35		4M2888	Coperchio x supporto Sistema misura	SME Cover	1
36		2M3242	Presp. Videotronic 16 Bit Technology	VIDEOTRONIC Sticker	1
37		2M3332	Presp. V585 H42 Bianco	V585 sticker	1

RSP = Parti di ricambio consigliate - *(Recommended Spare Parts)*



Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 / 1 Ref. number / Q.ty; Sub-table exists	3M681	Gruppo Elettronico V585 Electronic Group V585	R1	21/03/08	FASEP 2000 s.r.l Ronta - Firenze - Italy

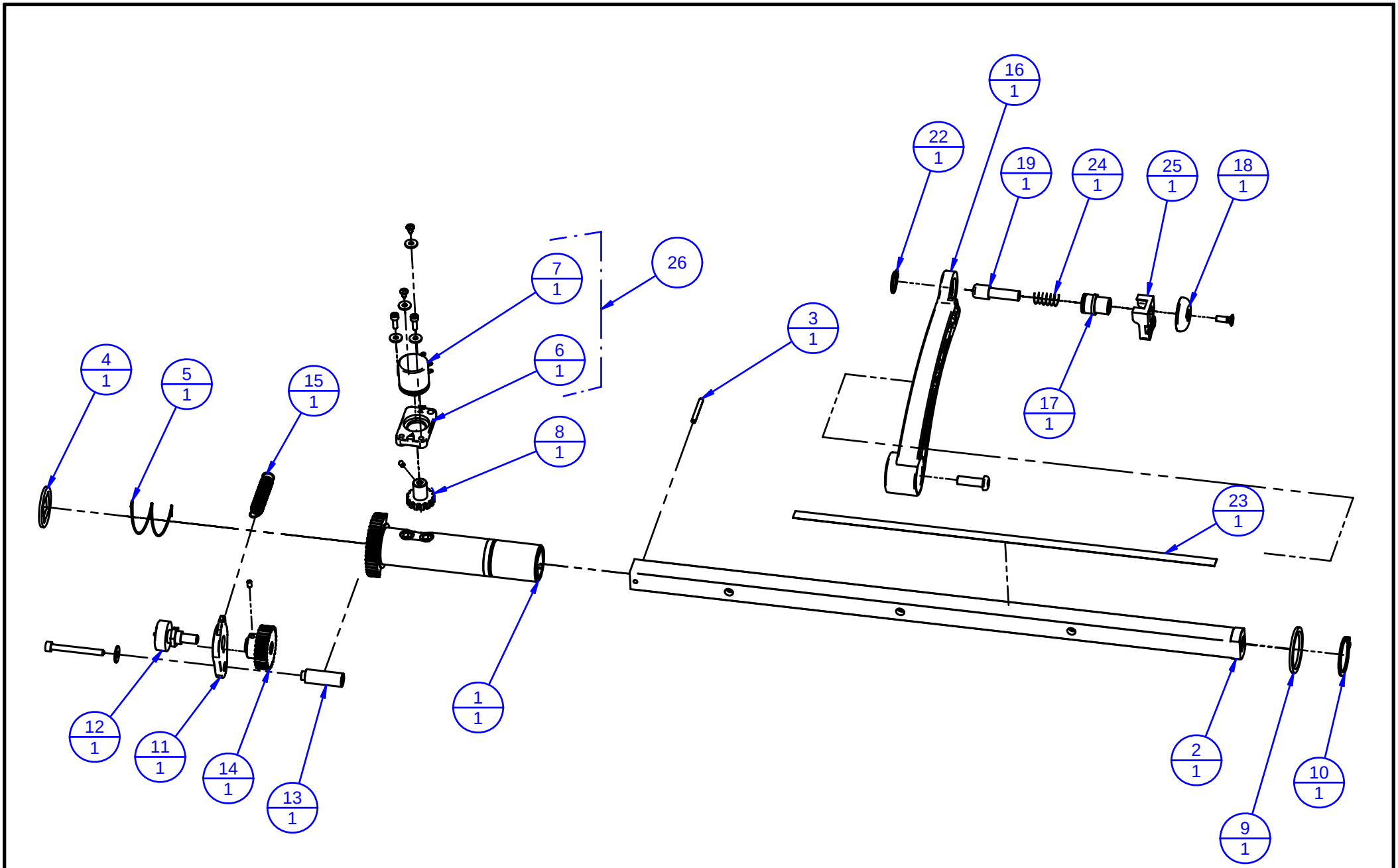
POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M3309	Chassis x V58x	Frame	1
2		4M3210	Distanziale Esagonale 6x11xM3	Spacer	4
3	x	9E3259	Scheda EPIA LN-10000 EG	EPIA LN-10000 EG Board	1
4		9E2644	Alimentatore ST250 GL	Power Supply	1
5		9E3260	DDR2 256MB 533 x EPIA 10000	DDR2	1
6		9E3153	Ata Disk Module 16MB 40Pin	ATA Disk Module	1
7		9V700061	Vite Testa a Bottone Flangiata M3x6	Bolt ISO 7380 F	4



Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number 1 Q.ty Sub-table exists	3M657	Gruppo Oscillante HD3.2005 (98RPM) HD3.2005 (98RPM) Motor assy	R2	13/06/07	FASEP 2000 s.r.l Ronta - Firenze - Italy

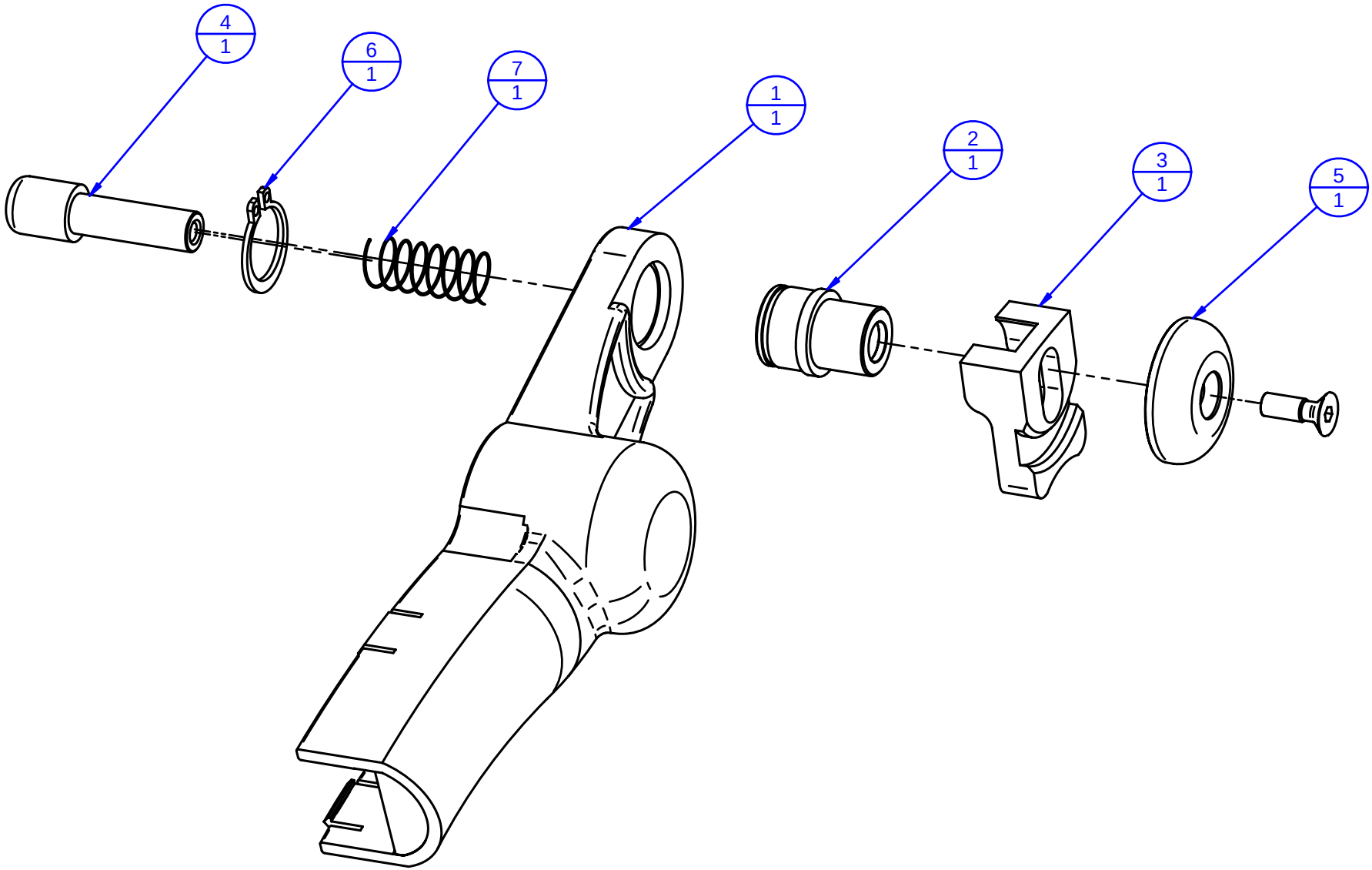
POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M2848	Controtelaio x gruppo HD2 (Light)	Support	1
2		4M2771	Distanziale	Spacer	3
3		4M2849	Albero Centrale gruppo HD	Central Shaft	1
4		4M2162	Manicotto - Campana HD2	Bell	1
5		2M2256	Disco ricerca ø194x64T	Position disk	1
6		4M2811	Supporto Motore Universale	Motor Support	1
7		9M1946	Puffer 25.20 M6	Vibration Dampers	2
8		4M2812	Piastrina Motore	Plate	1
9		3M2810	Motore + puleggia TB2	Motor + Pulley	1
10		9C0026	CUSCINETTO Radiale 6208 ZZ	Ball Bearing	1
11		9C0025	CUSCINETTO Radiale 6207 ZZ	Ball Bearing	1
12		9V094014	ANELLO DI ARRESTO Ø40 E	Seeger Ring	1
13		9V094047	ANELLO DI ARRESTO Ø35 E	Seeger Ring	1
14		9V094048	ANELLO DI ARRESTO Ø88 E	Seeger Ring	1
15		9V093013	ANELLO DI ARRESTO Ø80 I	Seeger Ring	1
16		4M2164	Attacco Flangiato HD	HD Support	1
17		2M2141	Disco premi-molla	Disk	1
18		9V093042	Seeger ø118I senza becchi	Seeger Ring	1
19		2M1849	Molla a compressione ø67x110x4.5	Spring	1
20		2M2320	Tirante sfinato per HD2	Pool	1
21		9M2263	Molla G40x51	Spring	1
22		2M2264	Scodellino per molla G40	Flange	1
23	x	9M2839-1	Cinghia TB2 630 6 Nerv.	Belt	1
24		4M1004	Barra Filettata M8x112	Pool	2
25		4M2857	Boccolo richiamo x molla	Pin	1
26		9M1204	Molla G26x32	Spring	1
27		4M2813	Traversino	Support	1
29		9C1016	Sfera 3/8"	Ball	6
32		3M648	Gruppo ALU-S.2005 sens. completo	ALU-SE Measuring System Assy	1
33		3M2573-1	Braccetto tastatore mobile completo	ALU-S Distance measuring rod	1
34		3M2573	Tastatore ALU-S	ALU-S Distance gauge	1
35		3M537	Gruppo misura Alu-s non sensorizato	Not sensorized ALU-S system	1
36		9M3198	Puffer 30.20 M6x18	Vibration Damper	2
37	x	3EV556	Sensore PIEZOXID MATROC 2007	Piezo Sensor	3

RSP = Parti di ricambio consigliate - *(Recommended Spare Parts)*



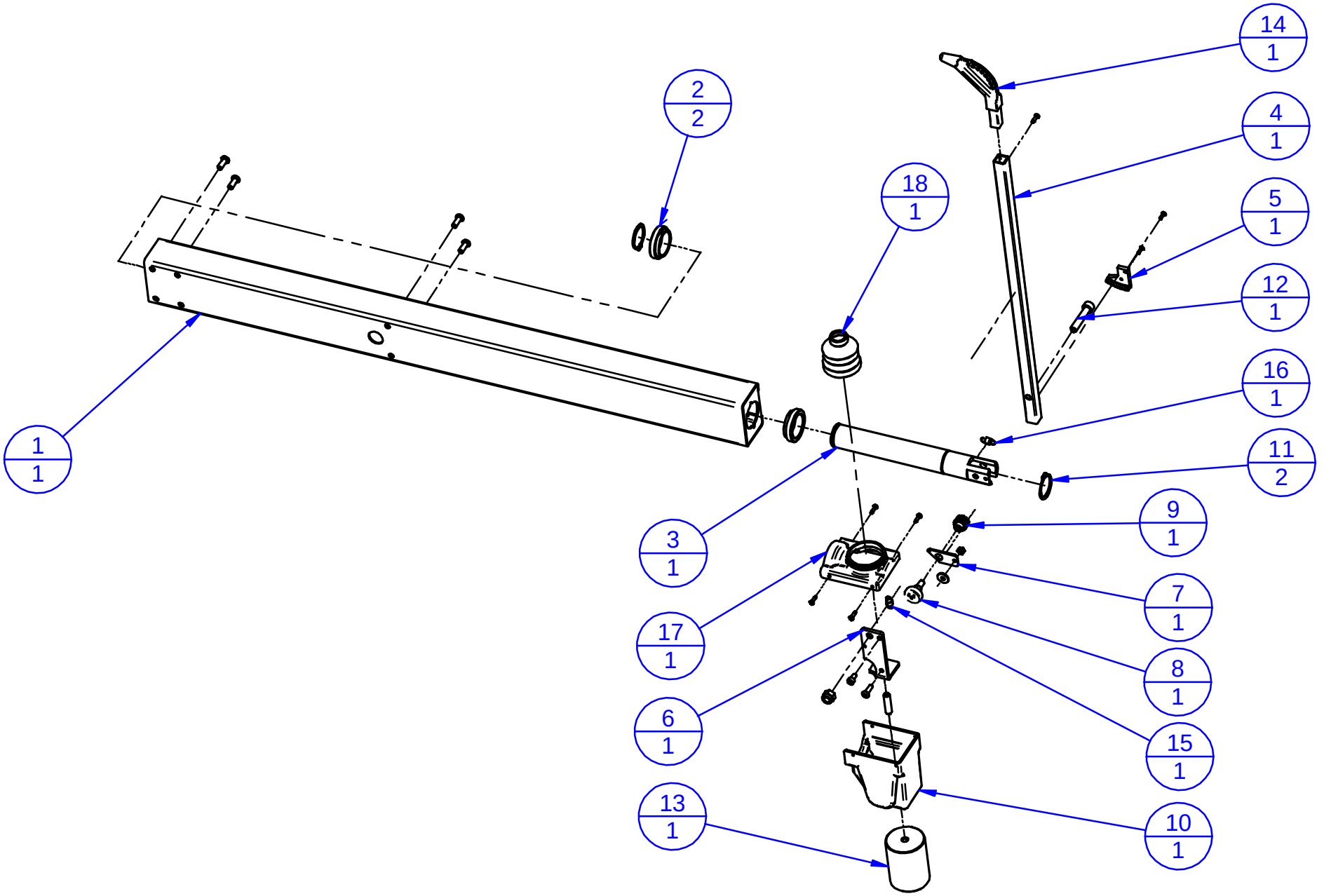
Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number / 1 Q.ty — Sub-table exists	3M648 + 3M2573-2	Gruppo misura ALU-SE 2008 ALU-SE Measuring System Assy 2008	R0	25/02/08	FASEP 2000 s.r.l Ronta - Firenze - Italy

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		2M2509	Corpo per ALU-S	ALU-S Body	1
2		2M2510	Asta scorrevole x ALU-S	Sliding rod	1
3		9V088024	Spina elastica ø3x26	Spring Pin	1
4		2M2646	Disco ritegno molla ALU-S	Stop Washer disk	1
5		2M2645	Molla a compressione De24 d1 NT30 Lo450	Spring	1
6		2M3276	Supporto potenz. dist. Alu-s	Distance Pot holder	1
7	x	9E2800	Potenziometro servo 534S103 10K	Servo Pot	1
8		2M2374	Puleggia dentata 13XL	Pulley	1
9		9V700019	Anello a spessore LMKAS d.35E	Ring	1
10		9V700018	Anello Seeger Ø 27E	Seeger Ring	1
11		2M3277	Supporto pot. diametro Alu-S	Diameter Pot holder	1
12	x	9E2786	Potenziometro 157B103 10K	Pot	1
13		2M2643	Distanziale staffa Alu-s	Spacer	1
14		3M2639	Ingranaggio Z30 Completo	Gear	1
15		2M0962	Molla a Trazione ø9x50	Spring	1
16		2M2573	Braccetto bandierina ALU-S	Rod	1
17		2M3373	Camicia tastatore ALU-S (13-25)	Jacket for ALU-S rod	1
18		2M2611	Tastatore x Alu-s	ALU-S rod	1
19		2M3374	Pistoncino x tastatore Alu-s (13-25)	Piston	1
22		9V700044	Anello seeger ø14E	Seeger Ring	1
23		2M2268-1	Striscia numerata bandierina (90-390)	Scale	1
24		9M0885	Molla CO12 De9.3 d0.65 NT8 Lo22	Spring	1
25		2M3461	Blocchetto x estrazione piombo	Block	1
26*		3M2641	Sensore Distanza x ALU-S	Sensor Distance ALU-S	1



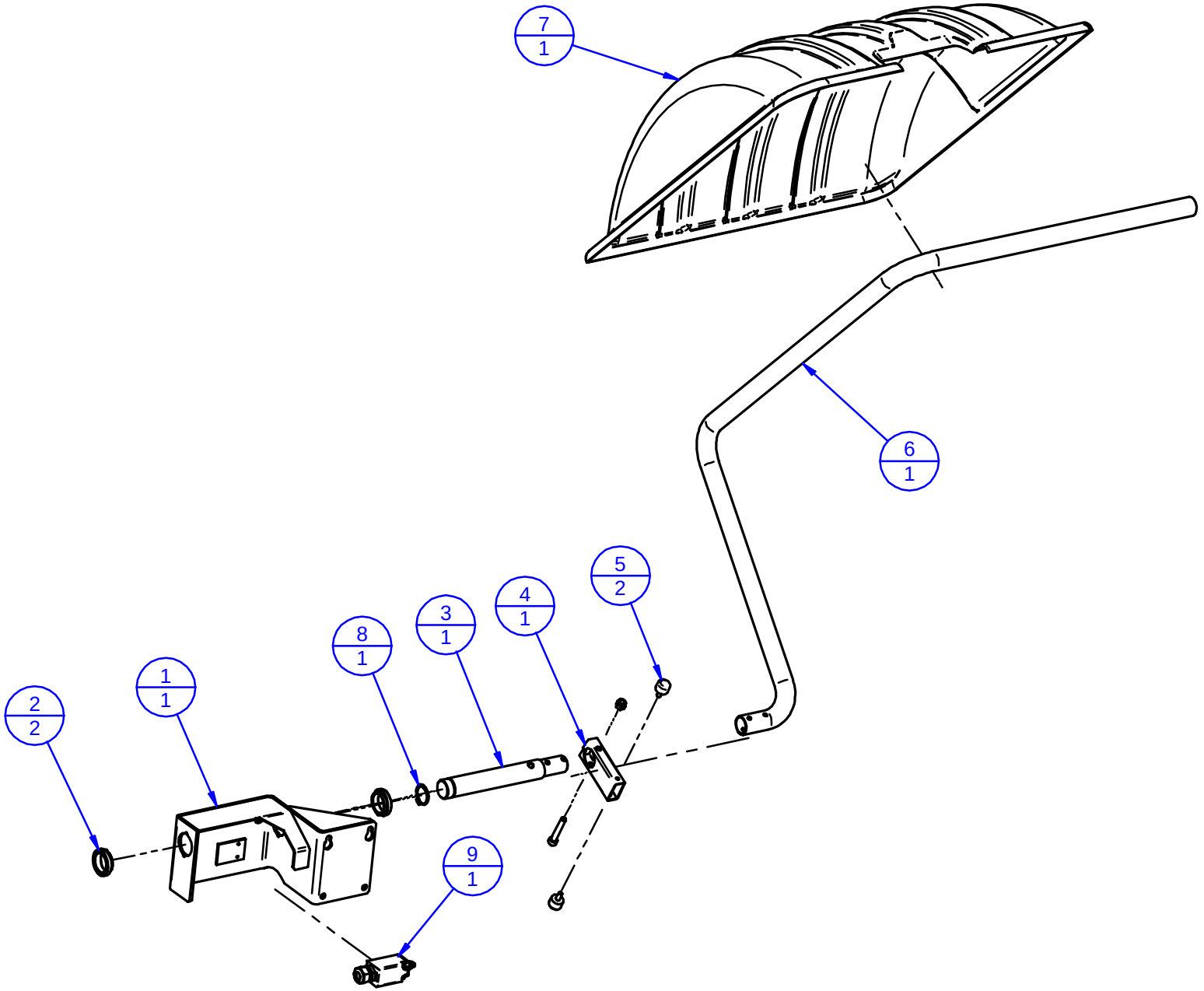
Legenda:	Codice *(Code):*	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number 1 Q.ty Sub-table exists	3M3462	Prolunga 24"-28" x braccetto ALU-S ALU-SE arm 28" extension	R0	02/04/08	FASEP 2000 s.r.l Ronta - Firenze - Italy

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		2M3462	Prolunga ALU-S 24"÷28"	Extension	1
2		2M3373	Camicia tastatore ALU-S (13-25)	Jacket for ALU-S rod	1
3		2M3461	Blocchetto x estrazione piombo	Block	1
4		2M3374	Pistoncino x tastatore Alu-s (13-25)	Piston	1
5		2M2611	Tastatore x Alu-s	ALU-S rod	1
6		9V700044	Anello seeger ø14E	Seeger Ring	1
7		9M0885	Molla CO12 De9.3 d0.65 NT8 Lo22	Spring	1



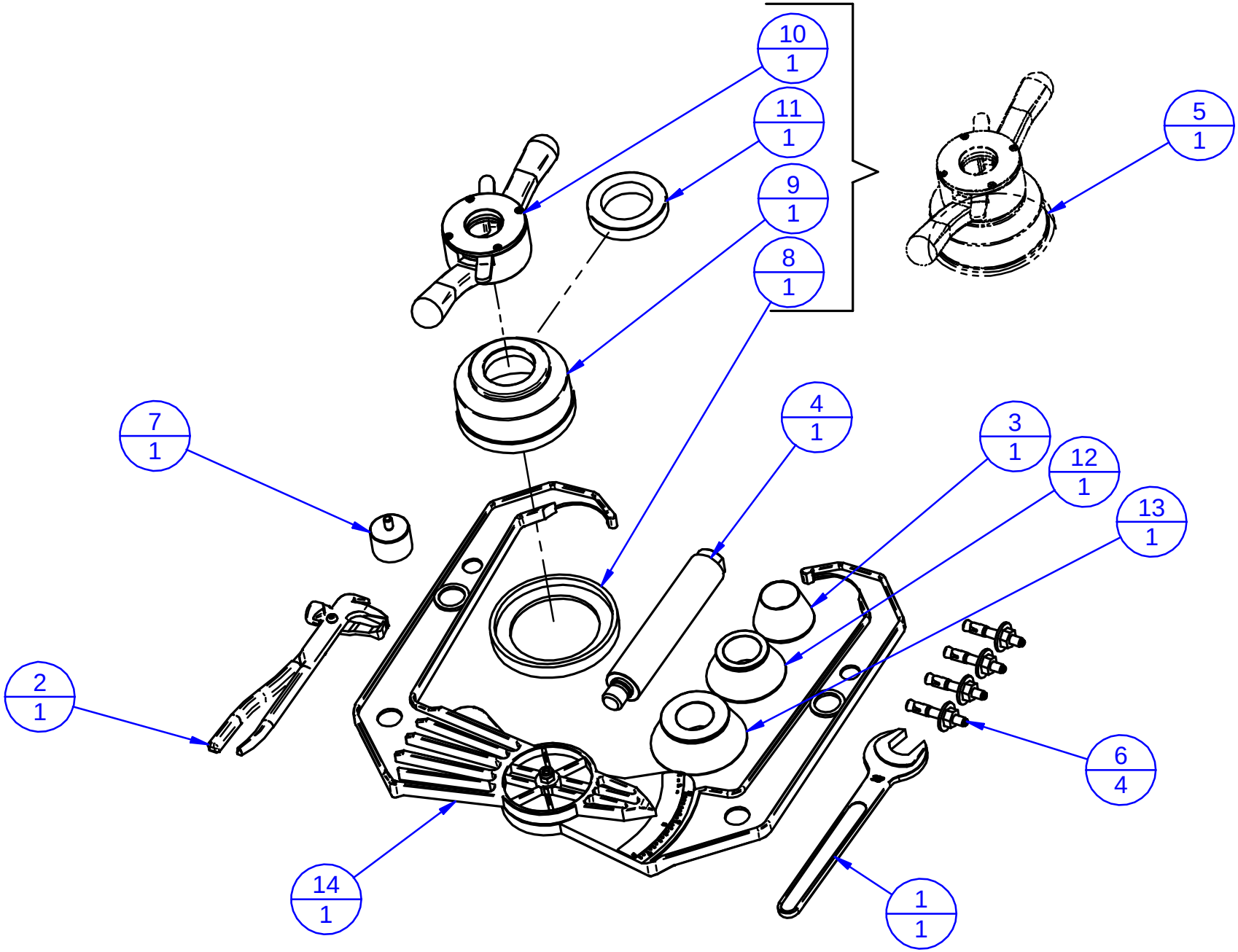
Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number 1 Q.ty ◇ Sub-table exists	3M0574	Sistema Misura Esterno (SME) External measuring rod assy	R0	05/09/06	FASEP 2000 s.r.l Ronta - Firenze - Italy

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M2884	Supporto Sistema di misura esterno	Holder	1
2		2M2869	Anello in Nylon	Bearing	2
3		4M2889	Perno a snodo	Pin	1
4		4M2885	Braccio di misura	Arm	1
5		2M2880	Settore dentato M1	Gear Sector	1
6		4M2892	Squadretta x Sistema Mis. Est.	Pot holder	1
7		4M2893	Piastrina ancoraggio pot.	Pot Support	1
8	x	9E2786	Pot. 157B103 10K 0.5% Lin.	Pot	1
9		4M2891	Pignone Z15 M1	Gear	1
10		4M2840	Scatola x Sistema misura esterno	Box	1
11		9V094019	Anello Seeger ø30 E	Seeger Ring	2
12		2M3022	Vite TCCE M8x42 (Gambo Cil.)	Bolt	1
13		4M2890	Contrappeso SME	Counterweight	1
14		2M2932	Beccuccio in Nylon x S.M.E.	Nylon Small Beak	1
15		2M1057	Molla a trazione	Spring	1
16		9M2917	MOLLA TR 13 De8 d1 Lo27.3	Spring	1
17		4M3001	Coperchio per scatola S.M.E.	Cover	1
18		9M3002	Soffietto in gomma 186640 NBR45/50	Bellows	1



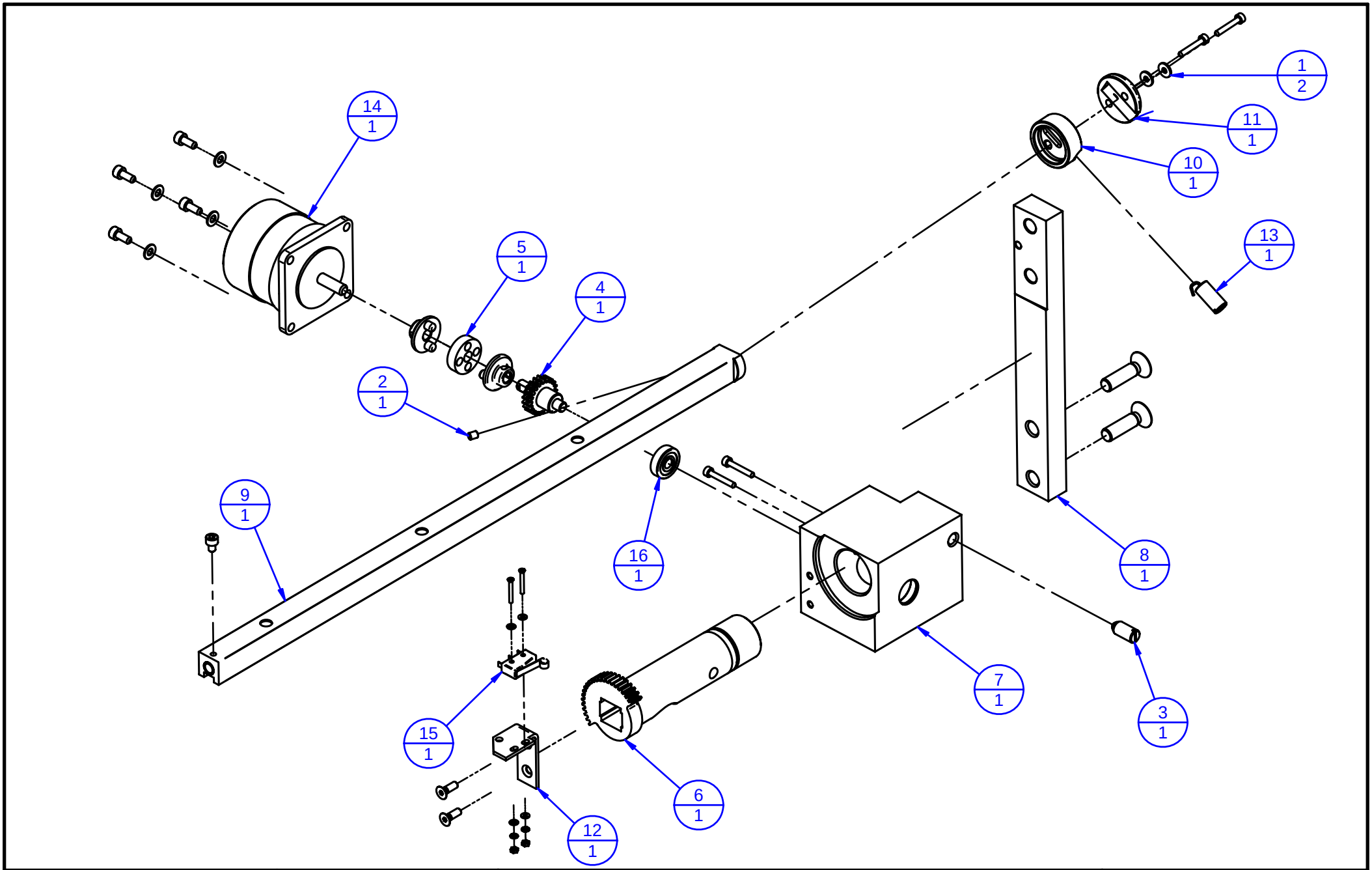
Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number 1 Q.ty Sub-table exists	3M600	Carter copriruota B3100 B3100 Safety Cover	R1	23/11/06	FASEP 2000 s.r.l Ronta - Firenze - Italy

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M2931	Supporto carter	Safety Cover Support	1
2		2M2869	Anello in Nylon	Bearing	2
3		4M3066	Asta incernieramento carter	Rod	1
4		4M2868	Biella di battuta	Connecting Rod	1
5		9M2875	Piedino di battuta (PM ø20x15 M6)	Vibration dampers	2
6		4M2903	Tubo sostegno carter x equ. ribaltabile	Safety Cover Holder	1
7		2M2842	Carter in ABS	Safety cover	1
8		9V094019	Anello Seeger ø30 E	Seeger Ring	1
9		3M2857	Finecorsa per Carter	Microswitch	1



Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number 1 Q.ty Sub-table exists	3M188-xx	Dotazione Standard Equilibr. con Carter Standard Accessories for all off-the-car wheel balancers	R0	05/09/06	FASEP 2000 s.r.l Ronta - Firenze - Italy

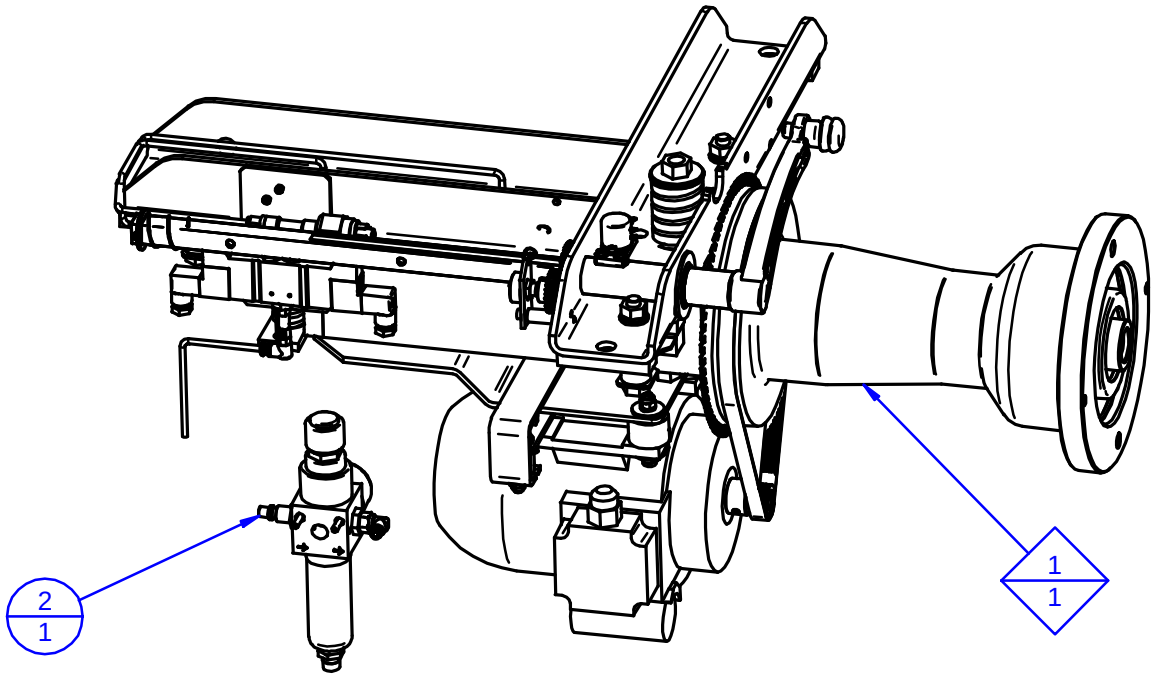
POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		9M2376	Chiave aperta di 27 (a una bocca)	Hex-key to lock shaft	1
2		9M1343	Pinza x Piombi	Weight pliers	1
3		2M0717-3	Cono 42/62 (Piccolo)	Small Cone	1
4		2M2144-1	Albero Flilettato ø38x3 L=190	Shaft	1
5		3M1106-2	Volantino Blocc. Rapido ø38x3 Standard	Quick Lock	1
6		9M1345	Tassello di fissaggio	Bolts for tightening to the ground	4
7		4M1015	Peso x Taratura	Calibration weight	1
8		9M2504	Anello in gomma per Bloccaggio Rapido (Haweka)	Rubbercap	1
9		9M2502	Campana per Bloccaggio Rapido (Haweka)	Clamping Hood	1
10		9M2523-1	Bloccaggio Rapido ø38x3	Quick Lock	1
11		9M2503	Anello per Bloccaggio Rapido (Haweka)	Pressure Ring	1
12		2M0716-3	Cono 54/81 (Medio)	Medium Cone	1
13		2M0715-3	Cono 70/98 (Grande)	Large Cone	1
14		3M156	Calibro di misura	Width gauge	1

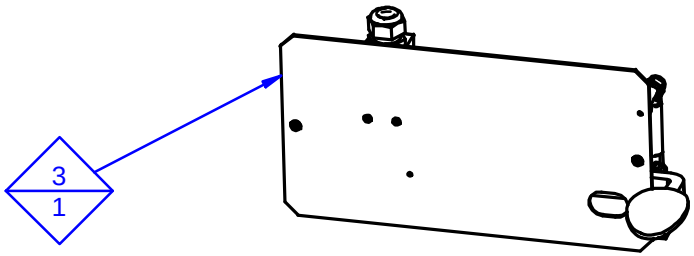


Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 / 1 Ref. number / Q.ty; Sub-table exists	3M3495-1CS	Gruppo Laser Corsa lunga Long travel laser assy	R0	10/05/08	FASEP 2000 s.r.l Ronta - Firenze - Italy

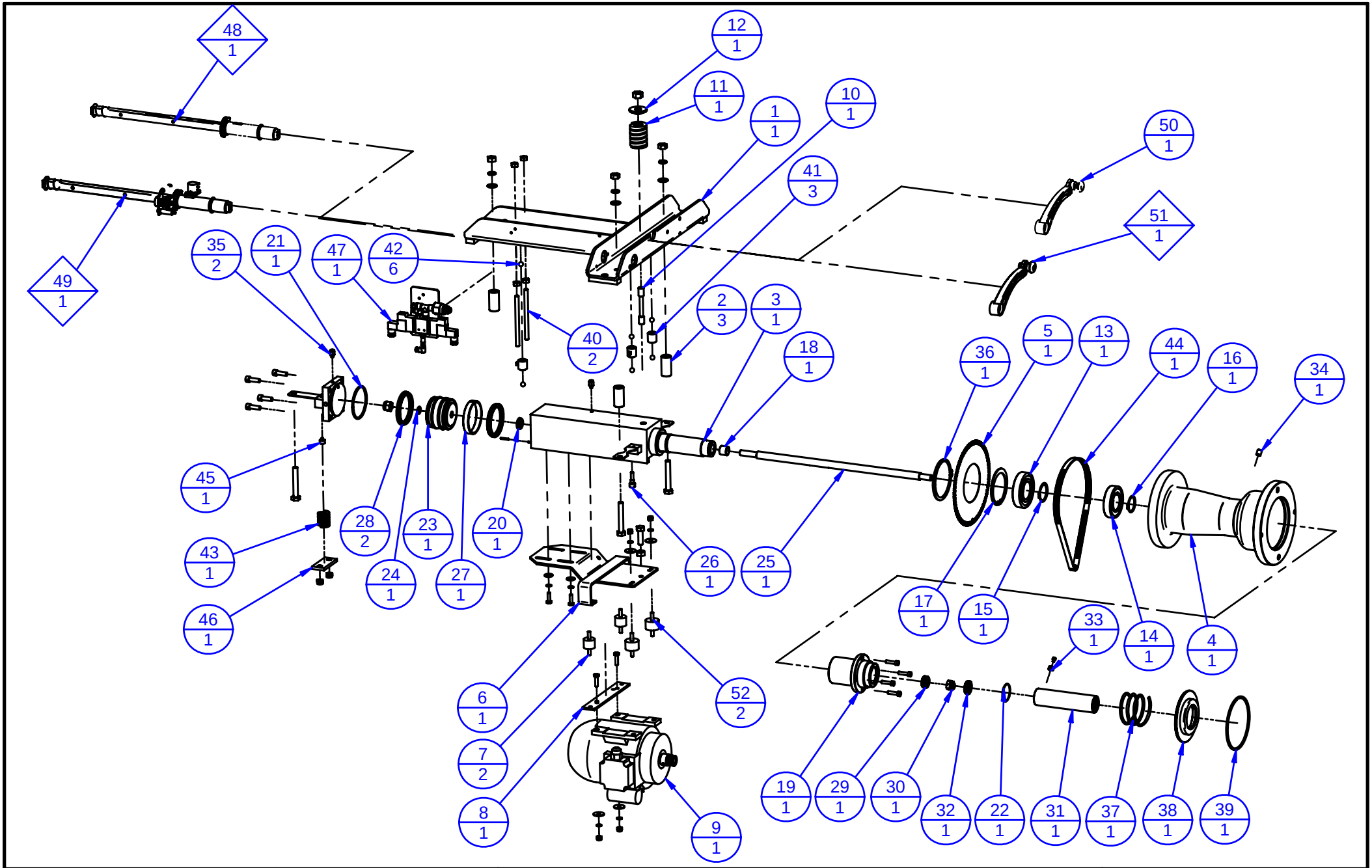
POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		9V673061	Grenbialina ø3x9 inox	Washer	2
2		9V051071	Grano M4x6 SP	Grub Screw	1
3		9M3029	Pressore a sfera e molla GN615-M8-K Fil	Ball spring plunger	1
4		2M2688-1	Pignone Z21-M1 per asta Laser	Gear Z21-M1	1
5		2M2691	Giunto DG22 x gruppo Laser	Motor Coubling	1
6		4M3494	Corpo x asta scorrevole	ALU-S Body	1
7		2M3495	Supporto gruppo Laser	Laser Holder	1
8		4M2687C	Staffa fissaggio laser convergente	Laser holder	1
9		4M3493	Asta dentata M1	Sliding rod for Laser	1
10		4M2695	Testina Laser	Laser head	1
11		4M2698	Coperchio testina laser	Haed laser cover	1
12		4M2690	Staffa x micro gruppo Laser	Support	1
13		9E3005	Puntatore Laser SR210	Laser indicator	1
14		9E3008-2	Motore passo passo	Motor	1
15		9E3010	Micro interruttore a rotella a saldare	Switch	1
16		9C0028	CUSCINETTO 626 2Z ø6x19 x6	Ball bearing	1

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		3M660	Gruppo oscillante PL3.2005 (98 rpm)	Motor Assy PL3.2005 (98 rpm)	1
2		3M2938	Kit Aria PL2	PL2 Air Kit	1
3		3M2289	Gruppo Pedale PL	PL Pedal assy	1





Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number / 1 Q.ty; Sub-table exists	/	Kit PL Equil. 16bit Pneo-Lock Group	R0	28/09/06	FASEP 2000 s.r.l Ronta - Firenze - Italy

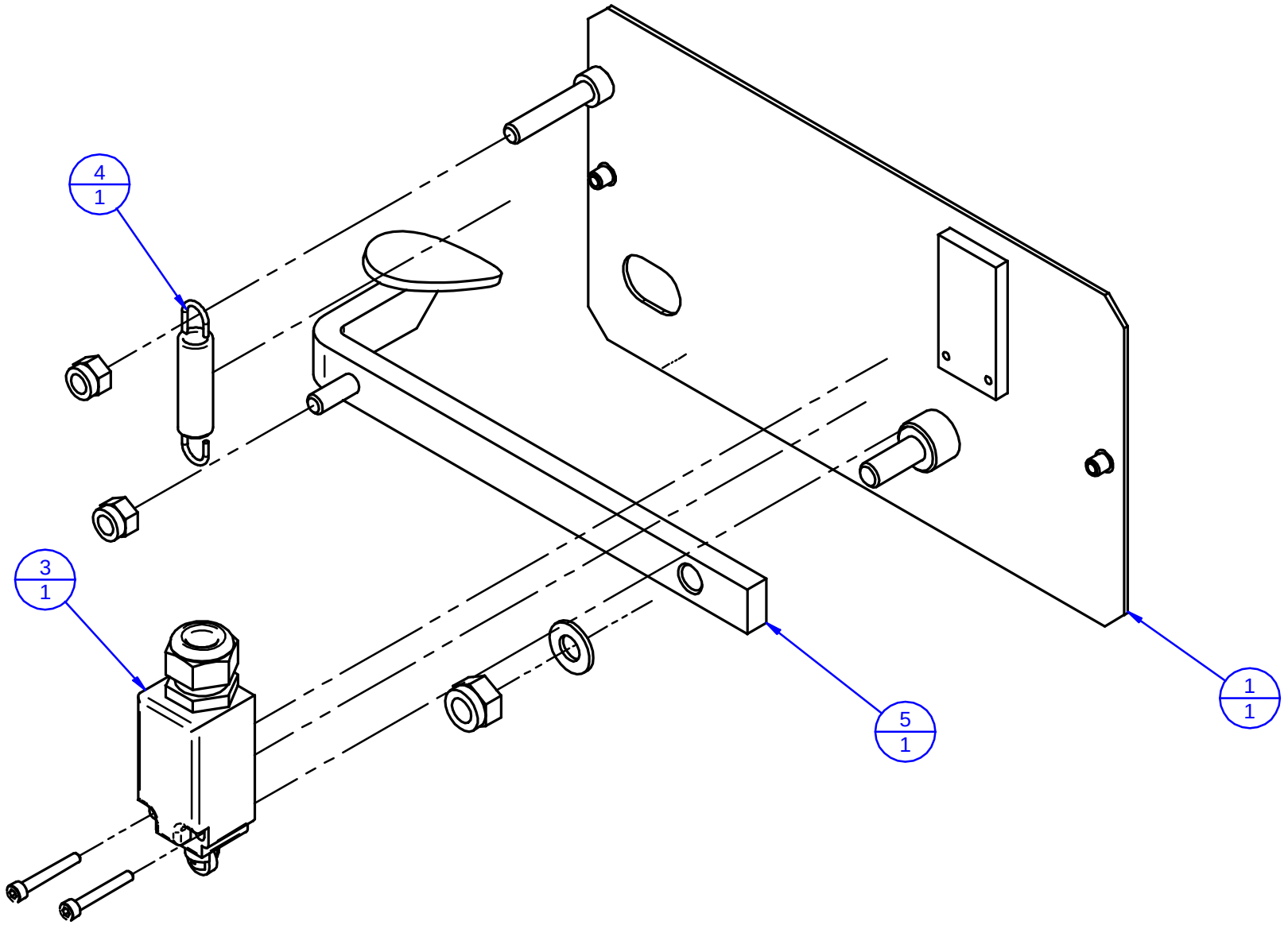


Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number / 1 Q.ty; Sub-table exists	3M660	Gruppo oscillante PL3.2005 (98 rpm) Motor Assy PL3.2005 (98 rpm)	R1	09/02/07	FASEP 2000 s.r.l Ronta - Firenze - Italy

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M3030	Controtelaio x gruppo PL2	Support	1
2		4M2911	Distanziale	Spacer	3
3		4M2912	Albero centrale PL2	PL Central shaft	1
4		4M2162P	Manicotto-Campana PL	Bell	1
5		2M2256	Disco ricerca ø194x64T	Position disk	1
6		4M3017	Supporto Motore x gruppo PL	Motor Support	1
7		9M1946	Puffer 25.20 M6	Vibration Dampers	2
8		4M2812	Piastrina Motore	Plate	1
9		3M2810	Motore + puleggia TB2	Motor + Pulley	1
10		4M3020	Tirante sfinato per PL	Pool	1
11		9M2263	Molla G40x51	Spring	1
12		2M2264	Scodellino per molla G40	Flange	1
13		9C0026-1	CUSCINETTO Radiale 6208 ZZ-SKF	Ball Bearing	1
14		9C0025-1	CUSCINETTO Radiale 6207 ZZ-SKF	Ball Bearing	1
15		9V094014	ANELLO DI ARRESTO Ø40 E	Seeger Ring	1
16		9V094047	ANELLO DI ARRESTO Ø35 E	Seeger Ring	1
17		9V093013	ANELLO DI ARRESTO Ø80 I	Seeger Ring	1
18		9M2313	Boccola ø16x20x16L autolubrificante	Bush	1
19		4M2163	Camicia per perno PL	Bush	1
20		9M2318	Guarnizione tenuta stelo DIM16-24	Gaskets	1
21		9M2317-1	Guarnizione OR 171	O-Ring	1
22		9M2311	Guarnizione OR 2150	O-Ring	1
23		2M2165-1	Porta guarnizioni	Piston	1
24		9M2555	Guarnizione OR 115	O-Ring	1
25		2M2166	Stelo pistone	Piston Rod	1
26		4M2389	Vite guida stelo x PL	Screw	1
27		9M2316-1	Anello guida E/DWR 75	Pilot Ring	1
28		9M2315-1	Guarnizione ø75 tenuta pistone	Gaskets	2
29		9C0027	Cuscinetto reggispinta 51101	Trust Block	1
30		4M2391	Dado Autobl. M12x1.25 Spianato x PL	Nut	1
31		2M2142	Perno oscillante	Pin	1
32		2M2145	Ghiera per perno	Ring Nut	1
33		4M2390	Chiavetta 8x12 x PL	Key	1

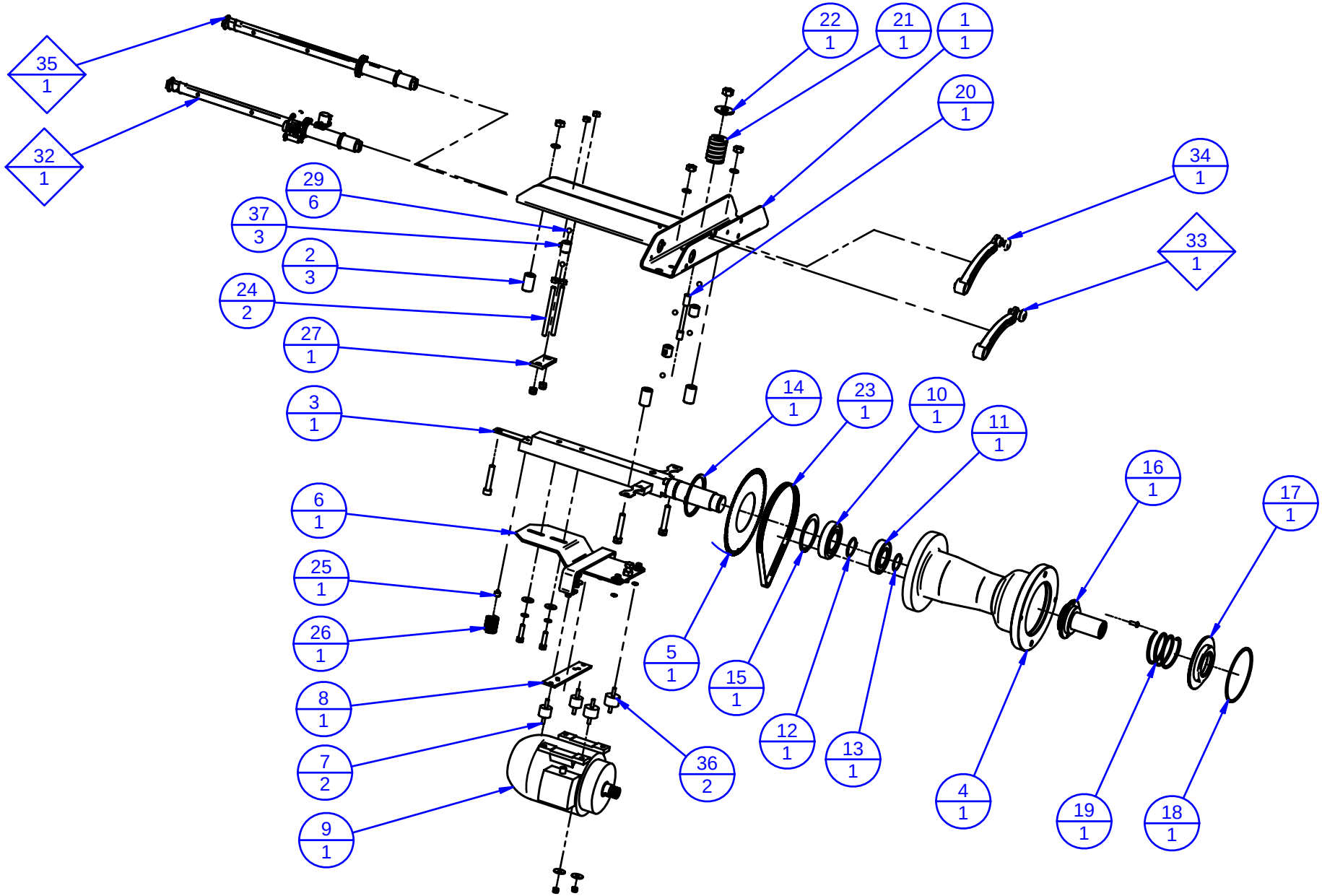
POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
34		4M2392	Grano M10x12 SP forato	Special Grub screw	1
35		9M2965	Raccordo diritto 50020 M5-4	Union	2
36		9V094048	ANELLO DI ARRESTO Ø88 E	Seeger Ring	1
37		2M1849	Molla a compressione ø67x110x4.5	Spring	1
38		2M2141	Disco premi-molla	Disk	1
39		9V093042	Seeger ø118I senza becchi	Seeger Ring	1
40		4M3021	Barra filettata M8x120	Stud	2
41	x	3EV556	Sensore PIEZOXID MATROC 2007	Piezo Sensor	3
42		9C1016	Sfera 3/8"	Ball	6
43		9M1204	Molla G26x32	Spring	1
44	x	9M3101	Cinghia poly V TB2 675 6 Nerv.	Belt	1
45		4M2857	Boccolo richiamo x molla	Pin	1
46		4M2813	Traversino	Support	1
47		3M3113	Gruppo Elettrovalvola x PL2	Electrovalve	1
48		3M537	Gruppo misura Alu-s non sensorizato	Not sensorized ALU-S system	1
49		3M648	Gruppo ALU-S.2005 sens. completo	ALU-SE Measuring System Assy	1
50		3M2573	Tastatore ALU-S	ALU-S Distance gauge	1
51		3M2573-1	Braccetto tastatore mobile completo	ALU-S Distance measuring rod	1
52		9M3198	Puffer 30.20 M6x18	Vibration Damper	2

RSP = Parti di ricambio consigliate - *(Recommended Spare Parts)*



Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 / 1 Ref. number / Q.ty; Sub-table exists	3M2289	Gruppo Pedale PL PL Pedal assy	R1	23/11/06	FASEP 2000 s.r.l Ronta - Firenze - Italy

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M2289	Piastra montaggio pedale PL	Holder	1
3		3M0846-1	MicroSwitch pedale PL completo	Switch	1
4		9M0083	Molla TR37	Spring	1
5		4M2280-1	Pedale switch PL	Pneolock Pedal	1



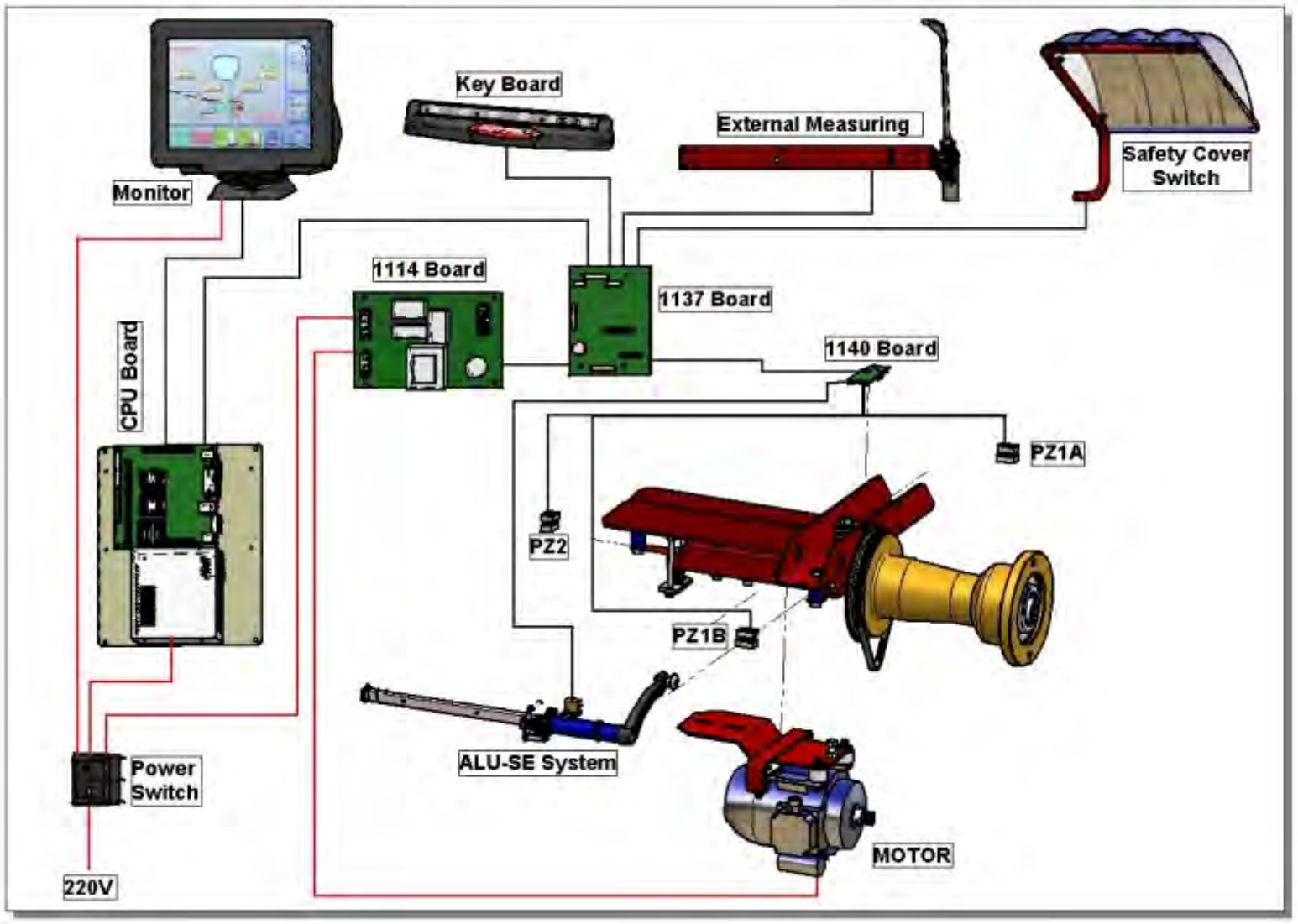
Legenda:	Codice *(Code)*:	Descrizione / *Description*:	Rev:	Data *(Date)*:	
2 Ref. number 1 Q.ty Sub-table exists	3M705	Gruppo Oscillante HD3.EMB (98RPM) HD3.EMB (98RPM) Motor assy	R0	01/08/07	FASEP 2000 s.r.l Ronta - Firenze - Italy

POS	RSP	Codice (Code)	Descrizione	Description	Q.tà (Q.ty)
1		4M2848	Controtelaio x gruppo HD2 (Light)	Support	1
2		4M2771	Distanziale	Spacer	3
3		4M2849	Albero Centrale gruppo HD	Central Shaft	1
4		4M2162	Manicotto - Campana HD2	Bell	1
5		2M2256	Disco ricerca ø194x64T	Position disk	1
6		4M2811	Supporto Motore Universale	Motor Support	1
7		9M1946	Puffer 25.20 M6	Vibration Dampers	2
8		4M2812	Piastrina Motore	Plate	1
9		3M3015-2	Motore 1Ph Autofr. (8p) + Puleggia	Motor + Pulley	1
10		9C0026	CUSCINETTO Radiale 6208 ZZ	Ball Bearing	1
11		9C0025	CUSCINETTO Radiale 6207 ZZ	Ball Bearing	1
12		9V094014	ANELLO DI ARRESTO Ø40 E	Seeger Ring	1
13		9V094047	ANELLO DI ARRESTO Ø35 E	Seeger Ring	1
14		9V094048	ANELLO DI ARRESTO Ø88 E	Seeger Ring	1
15		9V093013	ANELLO DI ARRESTO Ø80 I	Seeger Ring	1
16		4M2164	Attacco Flangiato HD	HD Support	1
17		2M2141	Disco premi-molla	Disk	1
18		9V093042	Seeger ø118I senza becchi	Seeger Ring	1
19		2M1849	Molla a compressione ø67x110x4.5	Spring	1
20		2M2320	Tirante sfinato per HD2	Pool	1
21		9M2263	Molla G40x51	Spring	1
22		2M2264	Scodellino per molla G40	Flange	1
23	x	9M2839-1	Cinghia TB2 630 6 Nerv.	Belt	1
24		4M1004	Barra Filettata M8x112	Pool	2
25		4M2857	Boccolo richiamo x molla	Pin	1
26		9M1204	Molla G26x32	Spring	1
27		4M2813	Traversino	Support	1
29		9C1016	Sfera 3/8"	Ball	6
32		3M648	Gruppo ALU-S.2005 sens. completo	ALU-SE Measuring System Assy	1
33		3M2573-1	Braccetto tastatore mobile completo	ALU-S Distance measuring rod	1
34		3M2573	Tastatore ALU-S	ALU-S Distance gauge	1
35		3M537	Gruppo misura Alu-s non sensorizato	Not sensorized ALU-S system	1
36		9M3198	Puffer 30.20 M6x18	Vibration Damper	2
37	x	3EV556	Sensore PIEZOXID MATROC 2007	Piezo Sensor	3

RSP = Parti di ricambio consigliate - *(Recommended Spare Parts)*

System Overview of Videotronic 16-bit / Ce, HD series

Applicable to: V555, V585, V585.G2, V643, V643.G2



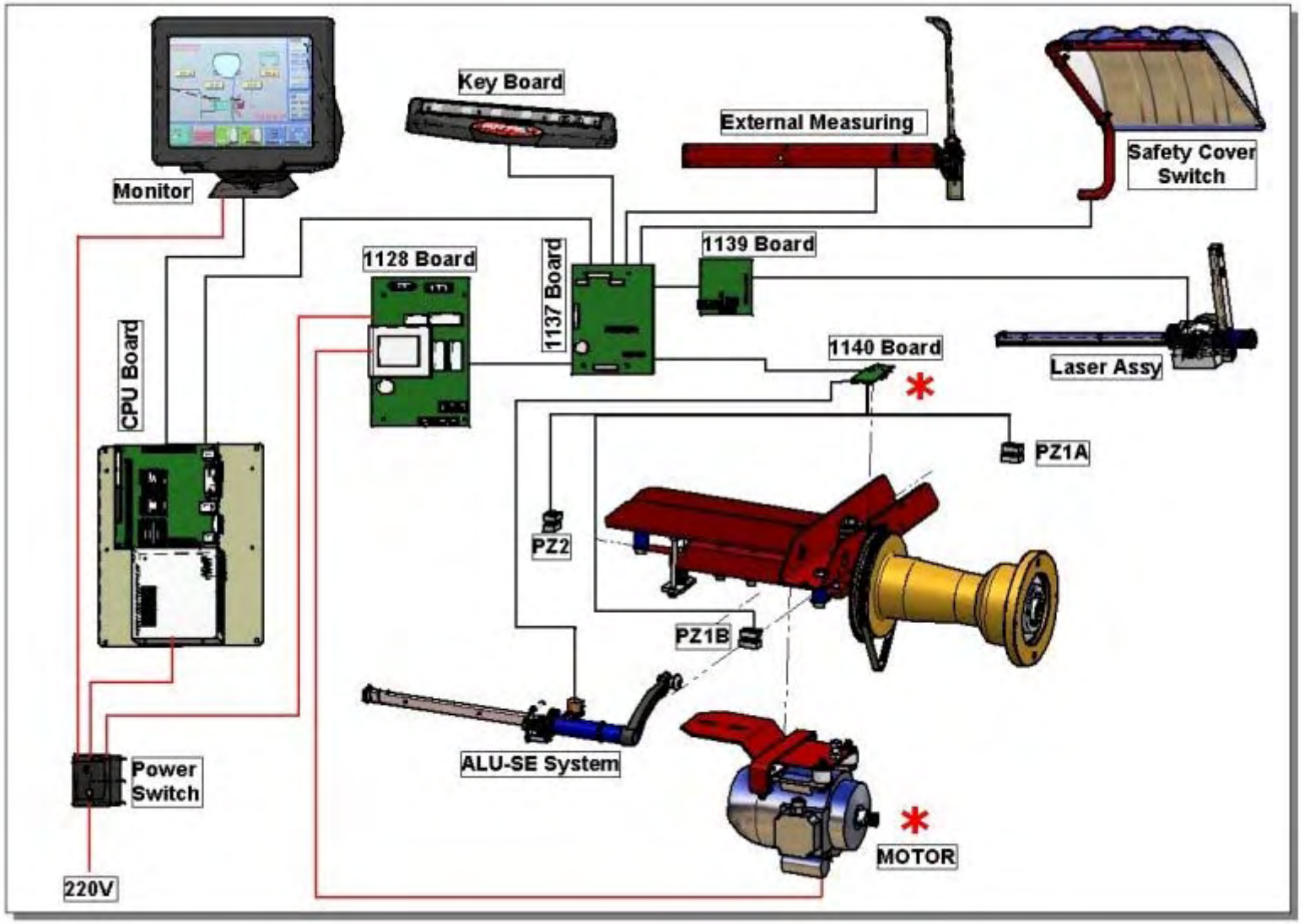
*** Variations Applicable for 50Hz or 60Hz**

click on the component to open a specific information page

Some parts might be optional or not present on some models.
They are shown in this page for the purpose of completeness.

System Overview of Videotronic 16-bit / Ce, HD / LASER series

Applicable to: V555.L, V585.L, V585.G2.L, V643.L, V643.G2.L



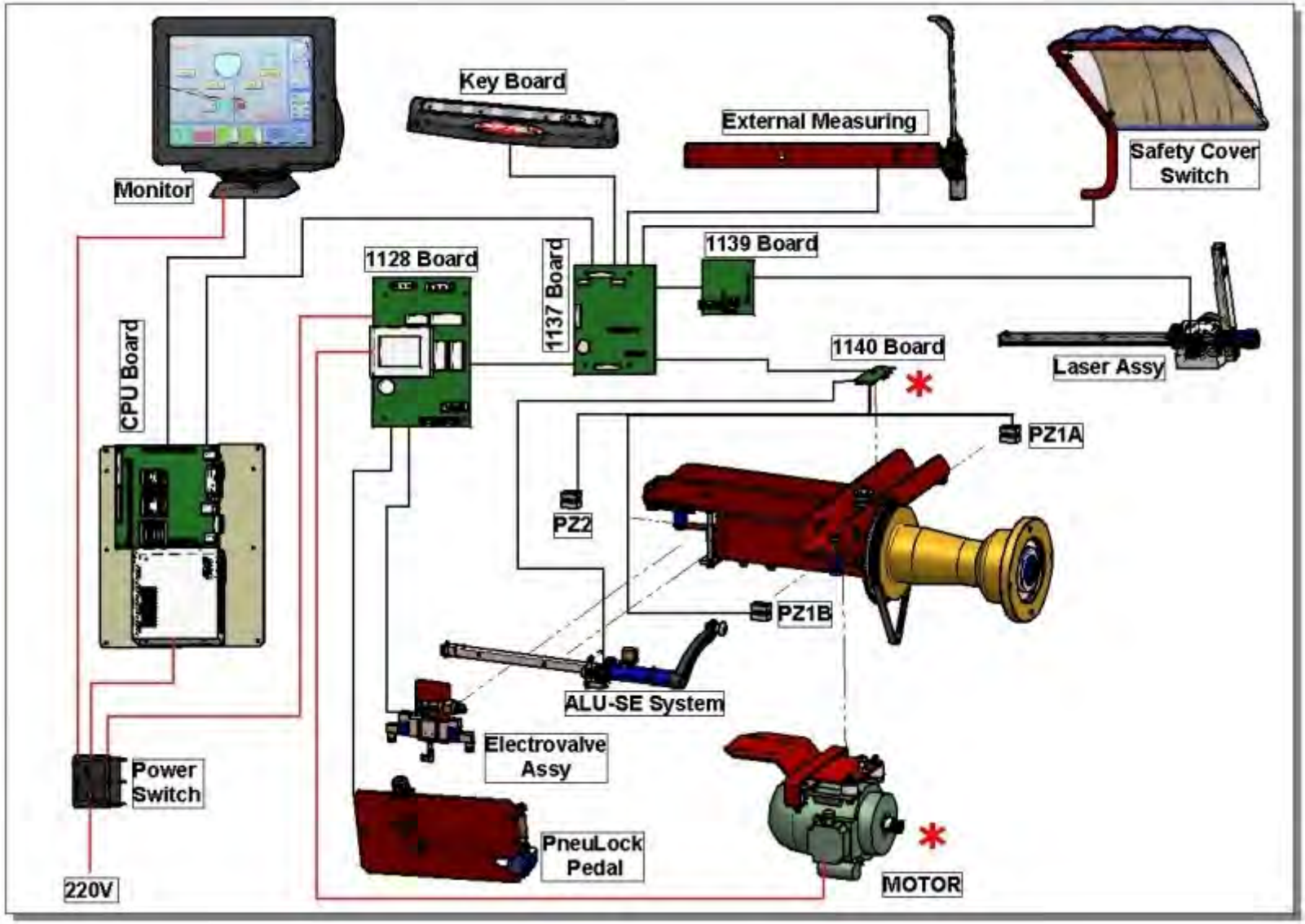
* Variations Applicable for 50Hz or 60Hz

click on the component to open a specific information page

Some parts might be optional or not present on some models.
They are shown in this page for the purpose of completeness.

System Overview of Videotronic 16-bit / CE, PL series

Applicable to: V555.PL, V555.PL.L, V585.PL, V585.PL.L, V585.G2.PL, V585.G2.PL.L, V643.PL, V643.PL.L, V643.G2.PL, V643.G2.PL.L



* **Variations Applicable for 50Hz or 60Hz**

click on the component to open a specific information page

Some parts might be optional or not present on some models.
They are shown in this page for the purpose of completeness.

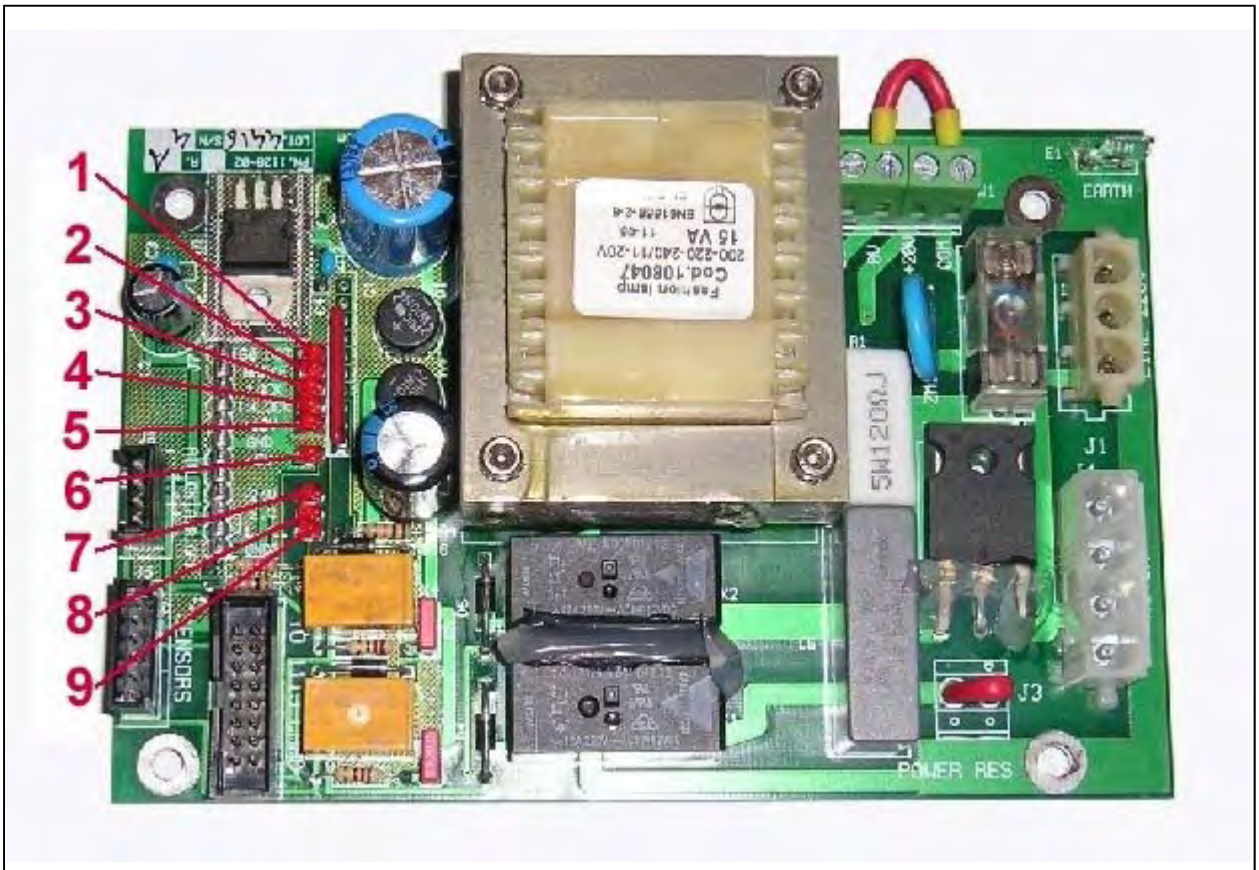
FASEP Tech Doc 0141

1114 troubleshooting guide

1. 5V = 5 volts power supply (ON = present)
2. GO MOT = motor running command (ON = running)
3. 12V = 12V power supply (ON = present)
4. BRAKE = motor braking command (ON = braking)

FASEP Tech Doc 0137

1128 troubleshooting guide



1. GO MOT = motor running command (ON = running)
2. BRAKE = motor braking command (ON = braking)
3. LOCK = pneu-lock Rele command (ON = lock)
4. UNLOCK = pneu-lock Rele command (ON = unlock)
5. 12V = 12V power supply (ON = present)
6. 5V = 5 volts power supply (ON = present)
7. + 24V = electrovalve power source (ON = present)
8. E.V. = electrovalve status ON
9. L.U. = electrovalve status OFF lock, unlock

FASEP Tech Doc 0116

Come ripristinare la configurazione della equilibratrice dopo la sostituzione della scheda 1137	**How to restore the wheel balancer configuration after replacing 1137 board**	
Applicabile a: - tutti i modelli Videotronic 16-bit - tutti i modelli equipaggiati con scheda 1137	**Applicable to:** - all Videotronic 16-bit - all units units equipped with 1137 pcb	
INTRODUZIONE: 1137 PCB contiene la memoria della equilibratrice. La memoria contiene il numero di serie, i contatori e la configurazione dell'equilibratrice. La memoria è fisicamente memorizzata sull'IC X24C16. La configurazione dell'equilibratrice è rigorosamente collegata all' hardware e al software dell'unita' dove essa e' collocata, ed inoltre essa è essenziale per un buon funzionamento dell'unità. Per qualunque motivo la scheda 1137 dovesse essere sostituita, la memoria X24C16 deve rimanere con l'unità originale. Pertanto la X24C16 deve essere trasferita dalla vecchia scheda 1137 e collocata sulla nuova 1137, in modo da rimanere con l'unità.	**INTRODUCTION**: 1137 PCB holds the wheel balancer memory. The memory contains serial number, counters, configuration of the wheel balancer. The memory is phisically stored on the IC X24C16. The configuration of the wheel balancer is strictly related to the hardware and software of the unit where it is placed, and it is essential for the good working of the unit. For any reason the 1137 board has to be replaced, the memory X24C16 has to stay with the original unit. So absolutely X24C16 has to be removed from the old 1137 board and placed on the new 1137 being exchanged, to stay with the unit.	
Procedura	**Procedure**	
1. Rimuovere la IC X24C16 dalla 1137 sostituita e spostarla sulla scheda introdotta al posto della scheda guasta.	1. Remove the IC X24C16 from 1137 you are replacing and move it to the board being put in place.	 fig. 1 - click to zoom
ATTENZIONE: Mantenere l'orientamento del circuito integrato come nell'originale.	**WARNING**: keep orientation of the chip same as the original.	

FASEP Tech Doc 0128

How to upgrade 1137 using FasepUFD

These instructions are applicable to FasepUFD 1.3.0 or higher.
Download latest version of FasepUFD here, if necessary.
FasepUFD must be installed on the computer before starting this procedure.
V044 programming kit is also needed.

1. connect FASEP Hardware Key to the computer

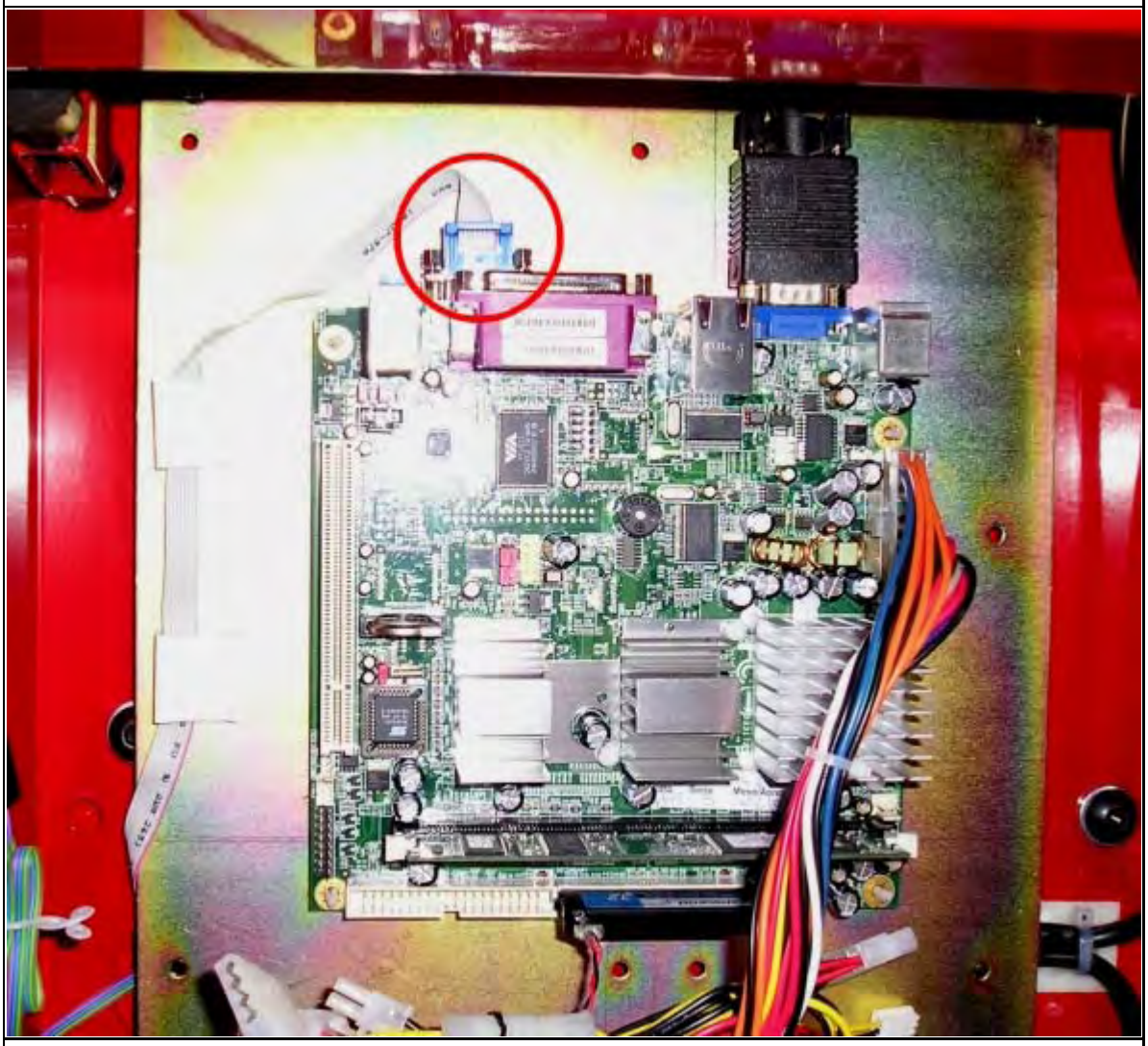
Note: Hardware key is not needed using FasepUFD 2.0.0 or higher

2. open FasepUFD program

3. select the Videotronic 16-bit (or Videotronic 2005) device from the "select device" list > press NEXT

4. select 1.0f from "select FW" list > press NEXT

Warning:
Always select latest fw version.
Old fw versions should be selected only if necessary or recommended by the Fasep Support Service.



5. open the rear panel of the wheel balancer and locate the rs232 cable coming from 1137 board to the Epia Motherboard. Disconnect it from the motherboard.

serial cable (part number 9E3068)

usb cable (part number 9E3204)

6. Make sure the 1137 cable is now connected to the PC (where UFD is running) by the serial cable or the

USB cable provided > press NEXT

7. Make sure that wheel balancer is turned on > press START

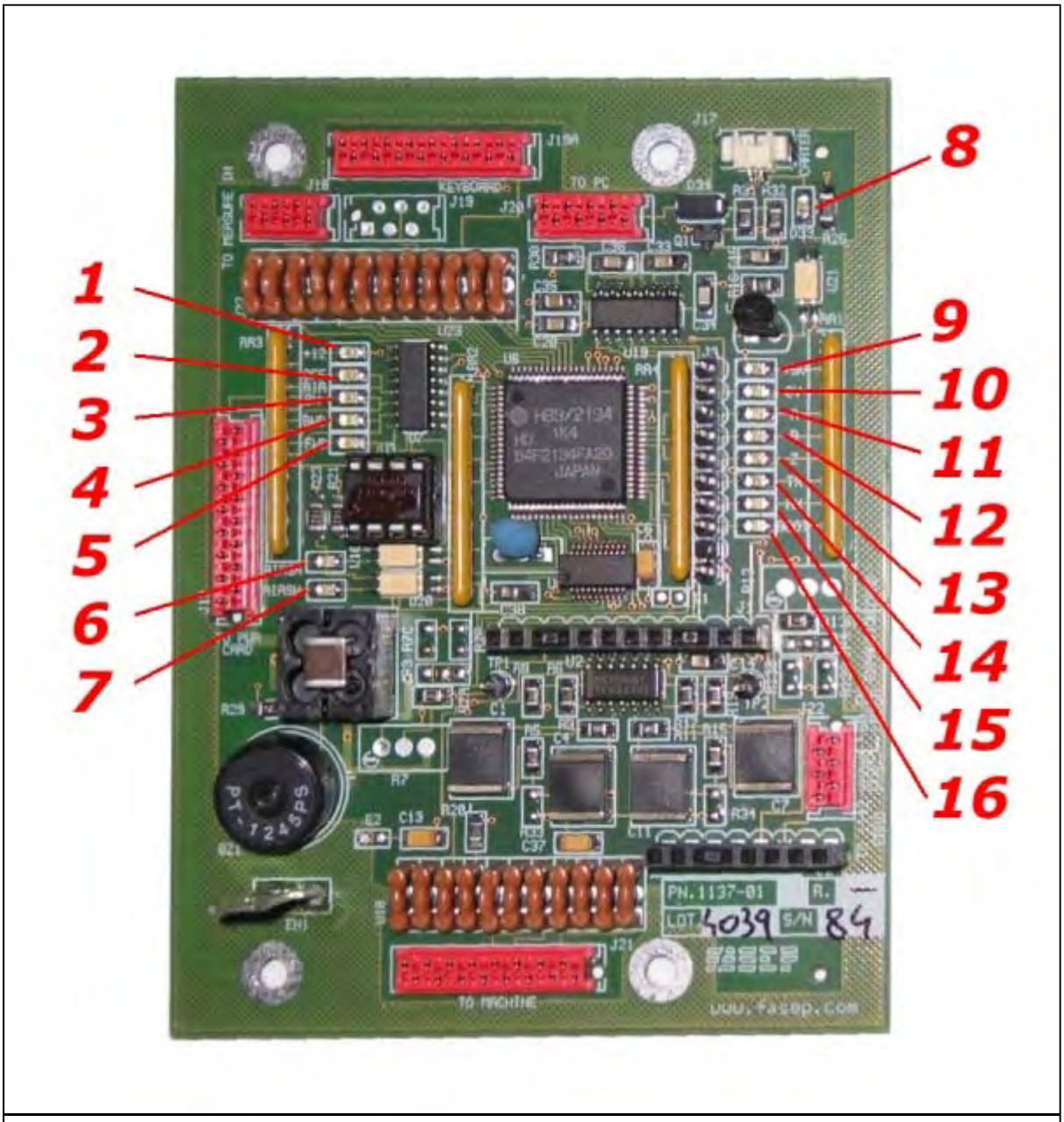
8. Programming will start

Warning:
Do not interrupt programming procedure. Do not cut power supply during programming.

9. once programming is completed > press END to finish

FASEP Tech Doc 0129

1137 troubleshooting guide



1. 12V = 12V power supply (ON = present)
2. AIR-ON = pneu-lock electrovalve status (ON = piston closing)
3. AIR-OFF = pneu-lock electrovalve status (ON = piston opening)
4. BWD = motor braking command (ON = braking)
5. FWD = motor running command (ON = running)
6. AIR-SN = air pressure sensor (ON = air pressure present)
7. AIR-SW = pneu-lock pedal (ON = pedal pressed)
8. CARTER = wheelguard switch (ON = closed)
9. 5V = 5 Volts power supply (ON = present)
10. CYCLE = must be flashing during all times (if not flashing after a reset, CPU might be dead)
11. A = position sensor #1
12. B = position sensor #2
13. Z = position sensor #0 (zero)
14. TX = serial transmission channel (ON = active)
15. RX = serial reception channel (ON = active)
16. BOOT = boot mode (ON = programming mode)

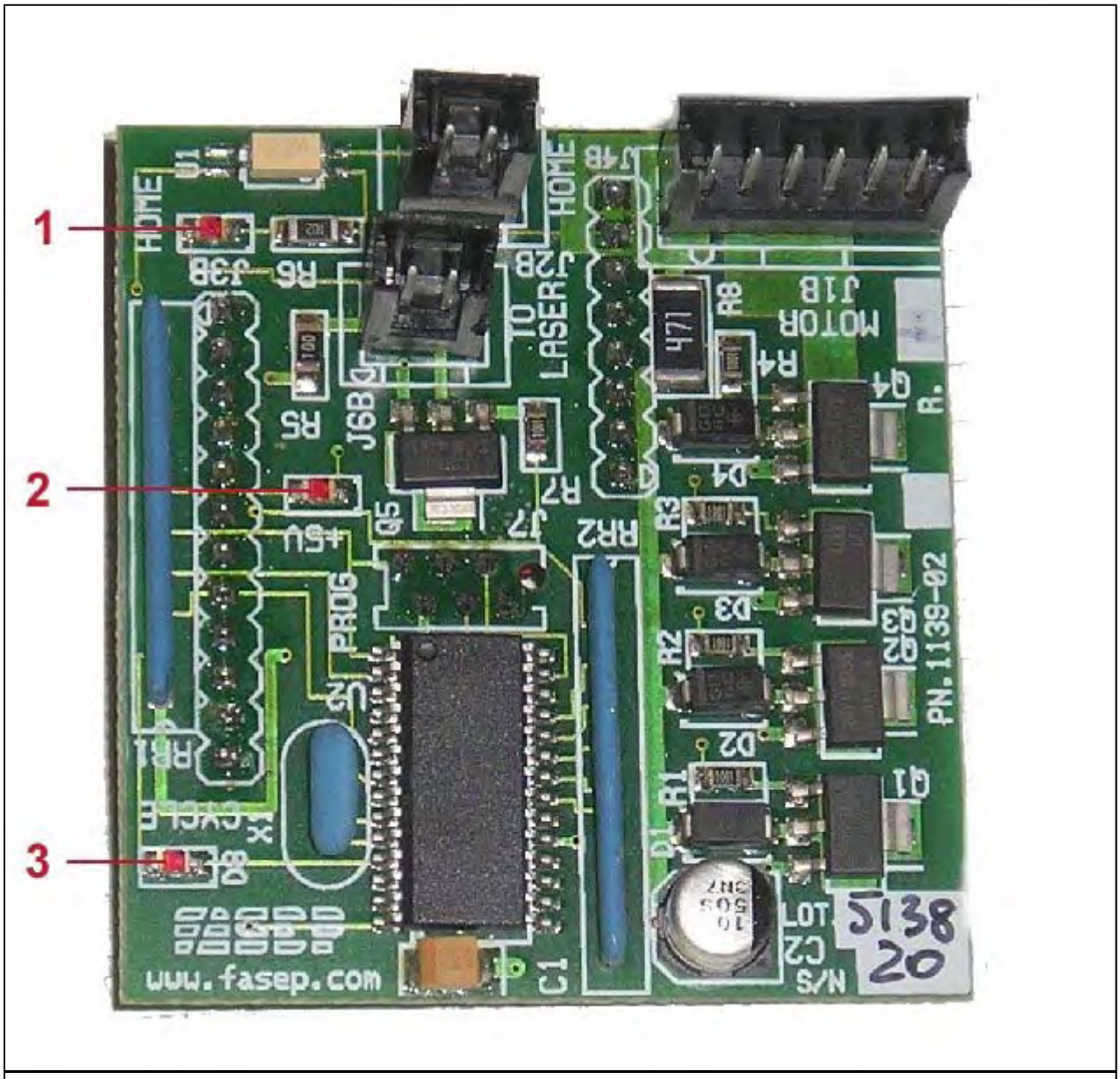
FASEP Tech Doc 0110

Diagnosi del sistema laser su scheda 1139	**Laser system diagnostic on 1139 board**
Applicabile a: tutti i modelli con laser tranne V65x	Applicable to: all units with laser except V65x
Indicazione dei led	**Led indications**
Led CYCLE: deve lampeggiare sempre. Indica che il programma sta girando regolarmente.	**CYCLE led:** must be always blinking. It means that the firmware program is running correctly.
Led HOME: indica la posizione di zero dell'asta laser: **spento** quando l'asta è in posizione di zero, **acceso** quando l'asta è fuori	**HOME: OFF** when the rod is in zero position, **ON** when the rod is outside
+5: indica la presenza del 5V. Deve essere sempre acceso	**+5:** 5V presence. Must be always ON
Controllo diagnostico sistema laser	**Laser system diagnostic check**
B2000/3100	*B2000/3100*
Tasto SET all'accensione > LAS ER > LAS POS	**SET at the startup > LAS ER > LAS POS**
Premendo + il laser si porta alla massima distanza e visualizza LAS OUT	Pressing + the laser goes at the maximum distance and LAS OUT is visualized
Premendo - il laser va a riposo e visualizza LAS IN	Pressing - the laser goes at home and LAS IN is visualized
Tasto SET all'accensione > LAS ER > LAS TST	**SET at the startup > LAS ER > LAS TST**
Effettua il test del laser	Makes the laser test
Tasto SET all'accensione > LAS ER > LAS LIT	**SET at the startup > LAS ER > LAS LIT**
Premendo + il laser si accende e visualizza LIT IN	With + the laser switches ON and LIT IN is visualized
Premendo - il laser si spegne e visualizza LIT OUT	With - the laser switches OFF and LIT OUT is visualized
Tasto SET all'accensione > SEN SOR > LHS	**SET at the startup > SEN SOR > LHS**
Indica se il laser è in posizione di riposo oppure no (ON/OFF)	If the laser is in rest position ON is visualized, otherwise OFF
E28	**E28**
Malfunzionamento del laser	Laser error
Videotronic 16BIT	*Videotronic 16BIT*
UTILITY > DIAGNOSTIC > MENU (due volte) > LASER OUT	**UTILITY > DIAGNOSTIC > MENU (twice) > LASER OUT**
il laser si porta alla massima distanza	the laser goes out at the maximum distance
UTILITY > DIAGNOSTIC > MENU (due volte) > LASER IN	**UTILITY > DIAGNOSTIC > MENU (twice) > LASER IN**

il laser ritorna in posizione di riposo	the laser return to rest position
Laser Service Check Chart	**Laser Service Check Chart**
in costruzione	under construction

FASEP Tech Doc 0142

1139 troubleshooting guide



1. HOME = 0 laser position
2. 5V = 5 volts power supply (ON = present)
3. CYCLE = microprocessor operation (must always be blinking > BLINK = correct operation)

FASEP Tech Doc 0152

How to replace piezo sensors on Wheel Balancers G2 16-bit series

1. Remove the upper cover. Remove the 1140 board (**Fig. 1**)

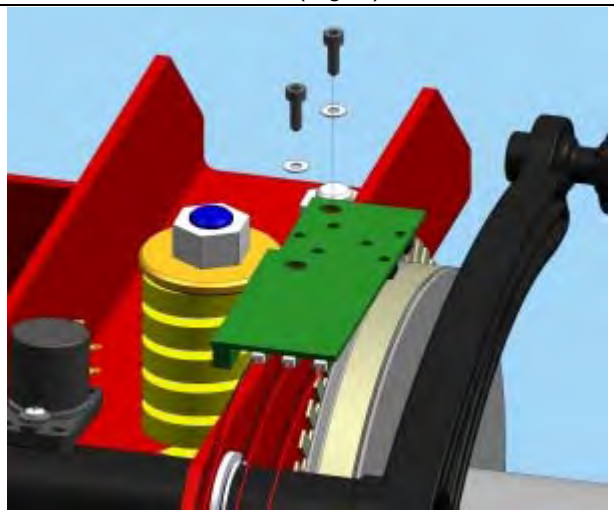


Fig. 1

2. Disconnect the piezos from 1140 board: J1 (PZ1A), J2 (PZ1B), J3 (PZ2) (**Fig. 2**)

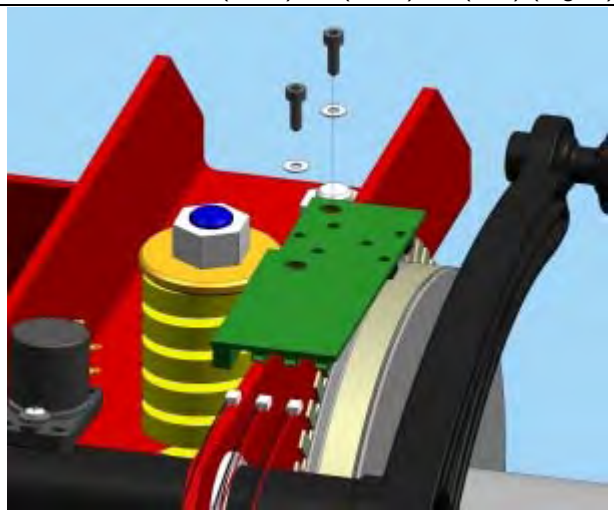


Fig. 2

3. Remove the nut locking the spring (**Fig. 3**)

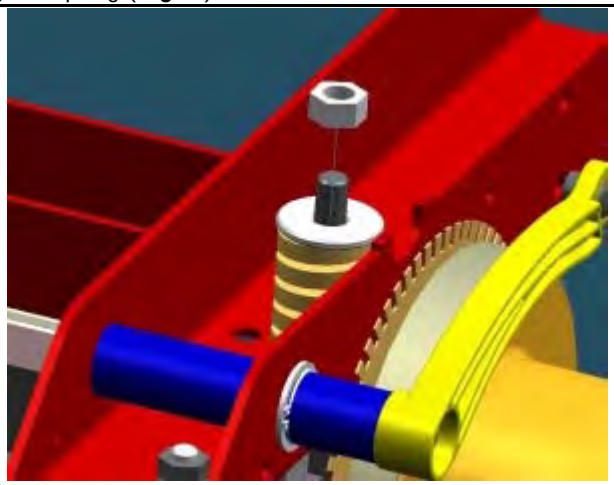


Fig. 3

4. Push down the shaft and remove the 2 piezos (**Fig. 4**)

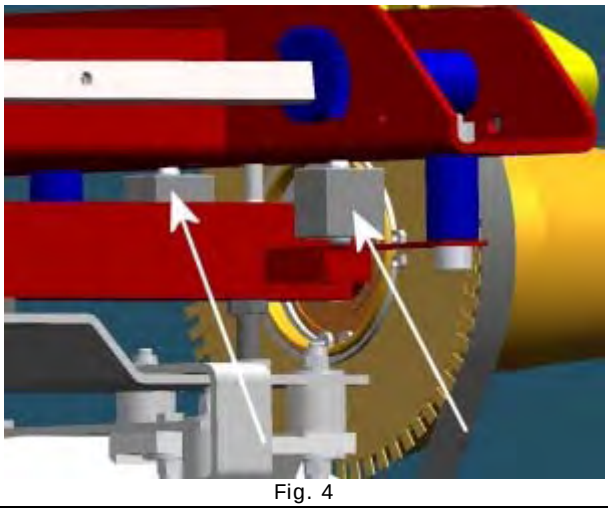


Fig. 4

5. Insert the new piezos.

6. Put the spring (**Fig. 3**) and the nut. Screw the nut until it starts compressing the spring, after that turn the nut **5 complete turns**.

7. Remove the 2 nuts (**Fig. 5**)

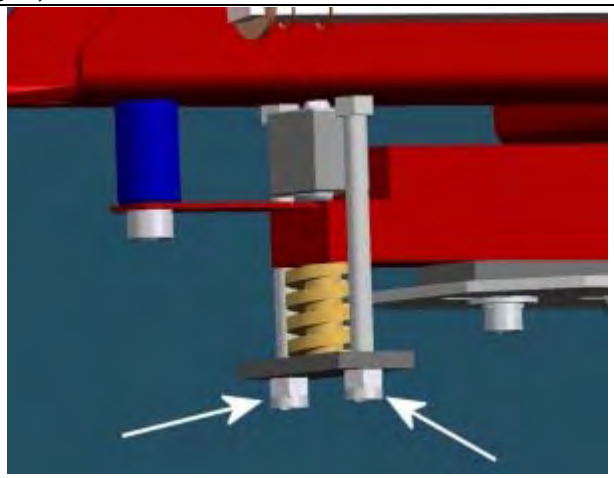


Fig. 5

8. Lift the shaft and remove the single piezo (**Fig. 5**)

9. Insert the new piezo

10. Put the spring (**Fig. 5**) and fix the nuts. Screw the nut until it starts compressing the spring, after that screw turn the nuts **5 complete turns**.

11. Put the 1140 board (**Fig. 1**) and connect the piezo to 1140 board: J1 (PZ1A), J2 (PZ1B), J3 (PZ2) (**Fig. 2**)

12. Calibrate the machine

MONTAGGIO SME su VDO
(macchine con scheda EPIA 5000 - solo per personale autorizzato)

MATERIALE NECESSARIO
SVersione di software 7.0 o superiore
S3M647 Kit SME

PROCEDURA
Disimballare il kit (Fig. 1).

Rimuovere il coperchio del supporto togliendo le 6 viti (Fig. 2).

Rimuovere l'anello seeger dall'asta. Inserire l'asta nel supporto (Fig. 3)

INSTALL ATION OF SME MEASUREMENT SYSTEM
(wheel balancers with EPIA 5000 PCB - to authorized personnel only)

PART LIST
SSoftware version 7.0 or higher
S3M647 SME kit

HOW TO INSTALL
Unpack the kit (Fig. 1)

Remove the cover of the support box, by removing the 6 screws (Fig. 2)

Remove the seeger. Insert the rod into the support (Fig. 3)

Fig. 1

Fig. 2

Fig. 3

Inserire l'anello seeger. Bloccare l'asta nel supporto (Fig. 4)

Avvitare il supporto dell'asta nella parte posteriore dell'equilibratrice (Fig. 5).

Rimuovere il coperchio posteriore delle schede elettroniche dell'equilibratrice. Connettere il cavo dell'asta al connettore del cavo contrassegnato con l'etichetta SME (Fig. 6)

Riavvitare i coperchi delle schede elettroniche e del supporto dell'asta (Fig.7).

CONFIGURAZIONE DELLA MACCHINA

MENU PRINCIPALE > UTILITY > DIAGNOSTIC
Premere MENU finché non appare INPUT CODE
Premere INPUT CODE
Inserire il codice di attivazione
Premere MEM
Controllare che nella linea 14 della pagina INFORMATION CENTER sia presente la dicitura "SME INPUT"
Premere EXIT

Effettuare la taratura dell'asta.

Insert the seeger ring. Lock the rod in the support box (Fig. 4).

Screw the support box on the back of the wheel balancer (Fig. 5).

Remove the cover of the electronic parts of the wheel balancer. Connect the cable of the rod to the connector of the cable with SME label (Fig. 6)

Screw the covers of the electronic parts and of the support of the rod (Fig.7).

SETUP OF THE WHEEL BALANCER

MAIN MENU > UTILITY > DIAGNOSTIC
Press MENU until INPUT CODE appears
Press INPUT CODE
Insert the activation code
Press MEM
Check the row n.14: the writing "SME INPUT" must be present

Press EXIT

Calibrate the rod.

Fig. 4

Fig. 5

Fig. 6

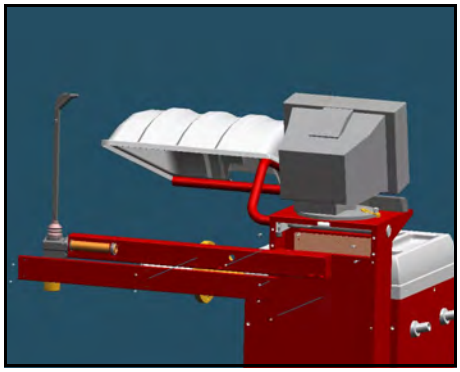
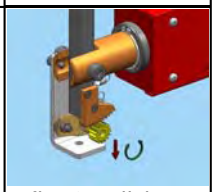


Fig. 7

FASEP Tech Doc 0108

Regolazione dei potenziometri delle aste di misura su VDT 16 Bit	**How to adjust rods potentiometers on VDT 16 Bit**	
Applicabile a: tutti i modelli VDT 16 Bit	Applicable to: all units VDT 16 Bit	
Procedura asta SME	**How to proceed fro SME rod**	
Fino alla versione 7.1d PAGINA PRINCIPALE > UTILITY > DIAGNOSTIC > ADC TEST Versione 7.1e o superiore PAGINA PRINCIPALE > UTILITY > DIAGNOSTIC > SENSOR	Until version 7.1d MAIN PAGE > UTILITY > DIAGNOSTIC > ADC TEST Version 7.1e or higher MAIN PAGE > UTILITY > DIAGNOSTIC > SENSOR	
Togliere i coperchi del potenziometro	Remove the cover of the potentiometer	 fig. 1 - click to zoom
Aggiustare la posizione del potenziometro finché la riga n. 6. SME DISTANCE non visualizza il valore in verde (con l'asta in posizione di riposo)	Adjust the potentiometer until the value at row n. 6. SME DISTANCE is green (while the rod in rest position)	 fig. 2 - click to zoom
Calibrare l'asta SME vedi tech doc 0037	Calibrate the SME rod see tech doc 0037	

Setup Scheda EPIA per VIDEOTRONIC

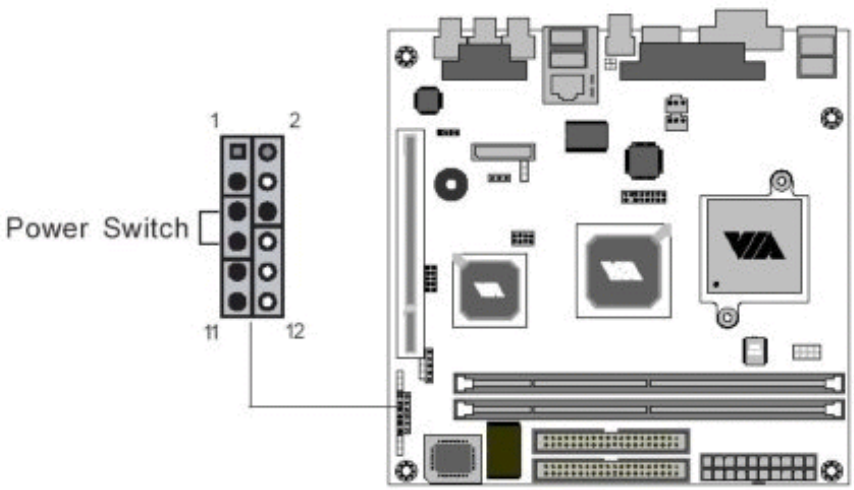
Configurazione

1. Alimentare la scheda;
2. Se la scheda si avvia correttamente passare al punto 4;
3. Nel caso in cui la scheda non si sia avviata, senza togliere l'alimentazione alla scheda stessa, inserire e rimuovere un jumper nella posizione indicata nel disegno (Power Switch);
4. Entrare nel Setup premendo il tasto **Delete** alla visualizzazione del logo **VIA**;
5. Selezionare **Load Opimized Defaults** e premere **Enter**;
6. Premere il tasto **Y** per dare conferma;
7. Selezionare la voce **Advanced BIOS Features** e premere **Enter**;
8. Impostare la voce **First Boot Device** su **USB-ZIP**;
9. Impostare la voce **Second Boot Device** su **CDROM**;
10. Impostare la voce **Third Boot Device** su **HDD-0**;
11. Uscire dall'**Advanced BIOS Features** premendo il tasto **Esc**;
12. Selezionare **Power Management Setup** e premere **Enter**;
13. Impostare la voce **AC Loss Auto Restart** su **Enabled**;
14. Uscire dal **Power Management Setup** premendo il tasto **Esc**;
15. Premere il tasto **F10** per salvare e uscire dal setup e premere **Y** per dare conferma;

Setup Epia board for VIDEOTRONIC

Configuration

1. Switch ON the PCB;
2. If the PCB correctly starts, go to point 4;
3. In case of the PCB does not start, without interrupt the power supply, insert and remove a jumper on the position indicated on the drawing (Power Switch);
4. Enter to the Setup by pressing **Delete** key during **VIA** logo is showing;
5. Select **Load Opimized Defaults** and press **Enter**;
6. Press **Y** key to confirm;
7. Select the item **Advanced BIOS Features** and press **Enter**;
8. Set the item **First Boot Device** to **USB-ZIP**;
9. Set the item **Second Boot Device** to **CDROM**;
10. Set the item **Third Boot Device** to **HDD-0**;
11. Exit from **Advanced BIOS Features** by pressing **Esc** key;
12. Select **Power Management Setup** and press **Enter**;
13. Set the item **AC Loss Auto Restart** to **Enabled**;
14. Exit from **Power Management Setup** by pressing **Esc** key;
15. Press **F10** key to save and exit from the Setup. Press **Y** to confirm;



Setup Scheda EPIA-M per VIDEOTRONIC

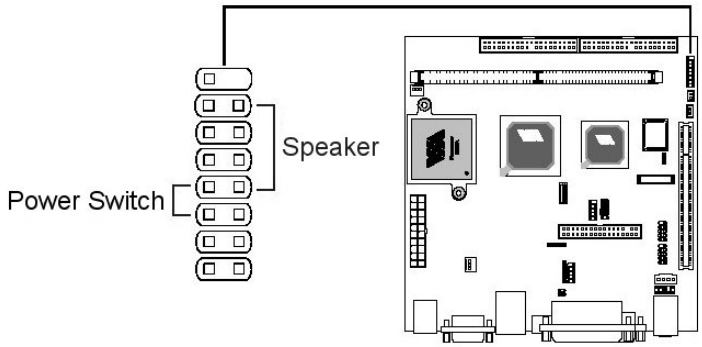
Configurazione

1. Alimentare la scheda;
2. Se la scheda si avvia correttamente passare al punto 4;
3. Nel caso in cui la scheda non si sia avviata, senza togliere l'alimentazione alla scheda stessa, inserire e rimuovere un jumper nella posizione indicata nel disegno (Power Switch);
4. Entrare nel Setup premendo il tasto **Delete** alla visualizzazione del logo **VIA**;
5. Selezionare **Load Opimized Defaults** e premere **Enter**;
6. Premere il tasto **Y** per dare conferma;
7. Selezionare la voce **Advanced BIOS Features** e premere **Enter**;
8. Impostare la voce **First Boot Device** su **USB-ZIP**;
9. Impostare la voce **Second Boot Device** su **CDROM**;
10. Impostare la voce **Third Boot Device** su **HDD-0**;
11. Uscire dall'**Advanced BIOS Features** premendo il tasto **Esc**;
12. Selezionare la voce **Advanced Chipset Features** e premere **Enter**;
13. Impostare la voce **Panel Type** su **800x600**;
14. Uscire dall'**Advanced Chipset Features** premendo il tasto **Esc**;
15. Selezionare **Power Management Setup** e premere **Enter**;
16. Impostare la voce **AC Loss Auto Restart** su **Enabled**;
17. Uscire dal **Power Management Setup** premendo il tasto **Esc**;
18. Premere il tasto **F10** per salvare e uscire dal setup e premere **Y** per dare conferma;

Setup Epia board for VIDEOTRONIC

Configuration

1. Switch ON the PCB;
2. If the PCB correctly starts, go to point 4;
3. In case of the PCB does not start, without interrupt the power supply, insert and remove a jumper on the position indicated on the drawing (Power Switch);
4. Enter to the Setup by pressing **Delete** key during **VIA** logo is showing;
5. Select **Load Opimized Defaults** and press **Enter**;
6. Press **Y** key to confirm;
7. Select the item **Advanced BIOS Features** and press **Enter**;
8. Set the item **First Boot Device** to **USB-ZIP**;
9. Set the item **Second Boot Device** to **CDROM**;
10. Set the item **Third Boot Device** to **HDD-0**;
11. Exit from **Advanced BIOS Features** by pressing **Esc** key;
12. Select the item **Advanced Chipset Features** and press **Enter**;
13. Set the item **Panel Type** to **800x600**;
14. Exit from **Advanced Chipset Features** by pressing **Esc** key;
15. Select **Power Management Setup** and press **Enter**;
16. Set the item **AC Loss Auto Restart** to **Enabled**;
17. Exit from **Power Management Setup** by pressing **Esc** key;
18. Press **F10** key to save and exit from the Setup. Press **Y** to confirm;



EPIA (9E3151) and EPIA-M (9E3212) board upgrading for VIDEOTRONIC 16 bit

1. **Part list**
   - 1.1 USB Floppy Disk Drive
   - 1.2 Programming disk or upgrade file received by e-mail or Internet

2. **Diskette building**

   To do only if the upgrade file is received by e-mail or Internet

   2.1 Boot disk creating:
   - **S** Windows 98: MS-DOS command: **FORMAT A: /s**
   - **S** Windows XP/2000: right click on 3,5" Floppy disk then select Format...; select Create MS-DOS boot disk from the format window

   2.2 Extract the received file **vdt_xxx.zip** to the just created boot disk

3. **Upgrading procedure**

   In case of the date of production of the machine is before 11/04/2006 is necessary to setup the Bios of the board. Se the 0084 document

   3.1 Connect the USB Floppy Disk Drive (Fig. 2) to the EPIA board
   3.2 Insert the Boot Disk on drive A:
   3.3 Switch off and on the machine
   3.4 Once the installation is finished, switch off the machine, remove the diskette, unplug the USB Floppy Disk Drive

Fig. 2

If the Floppy Disk Drive does not start, check the Bios setup using the document 0084 and resume from the point 3.2

HOW TO REPLACE EPIA 6000-ML BOARD ON WHEEL BALANCER

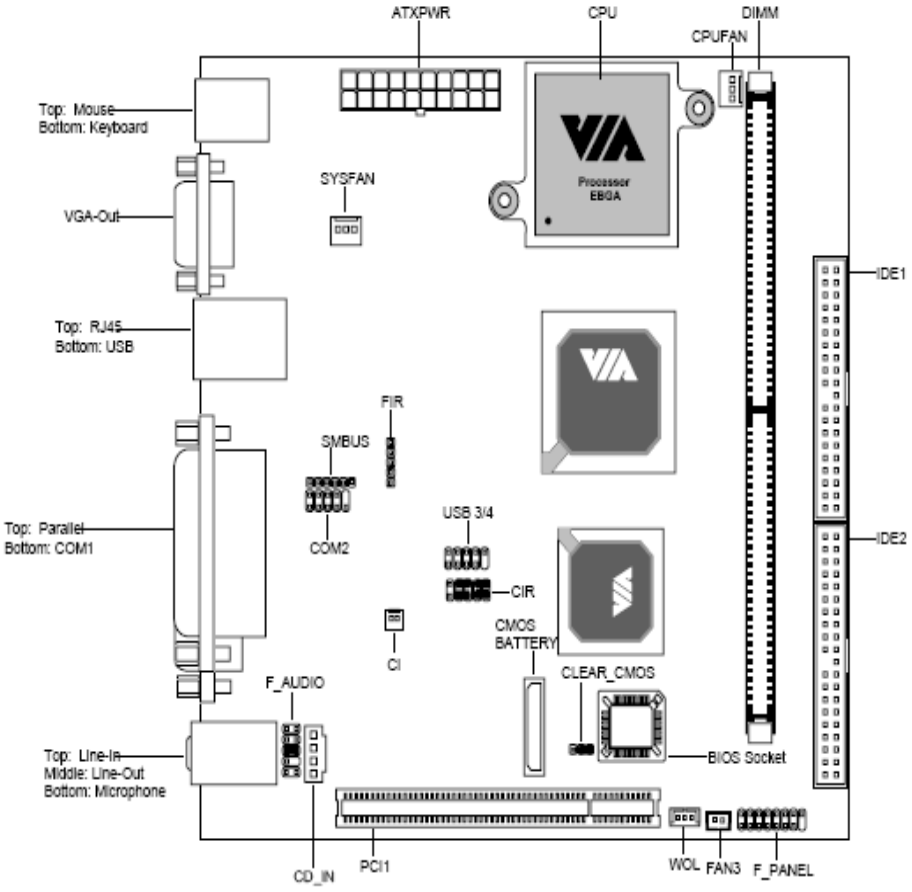
Part list

– MOTHER BOARD EPIA ML 6000 Cod. 3ES553

How to install

1. Switch off the power Wheel Balancer
2. Remove rear panel
3. Look for the mother board Epia 6000ML inside (1)
4. Remove **ATX PWR** (Power connector) connector (2)
5. Touch with an hand an metallic part for ground connector and remove **block** of Memory Dimm and then remove **DIMM**. Replace the Memory Dimm in the new Motherboard Epia6000 ML
6. Remove Hard Disk Flash module DOM from socket PRIMARY MASTER, **IDE1** and remove (3) connector power
7. Remove RS 232 Cable from **Bottom Com 1** (4)
8. Remove cable signal video from **VGA-Out** connector (5)

9. Insert new Mother board Epia Ml 6000 an replace from point 4 to 7



Back Panel

FASEP Tech Doc 0126

Setup EPIA - ML board for Videotronic

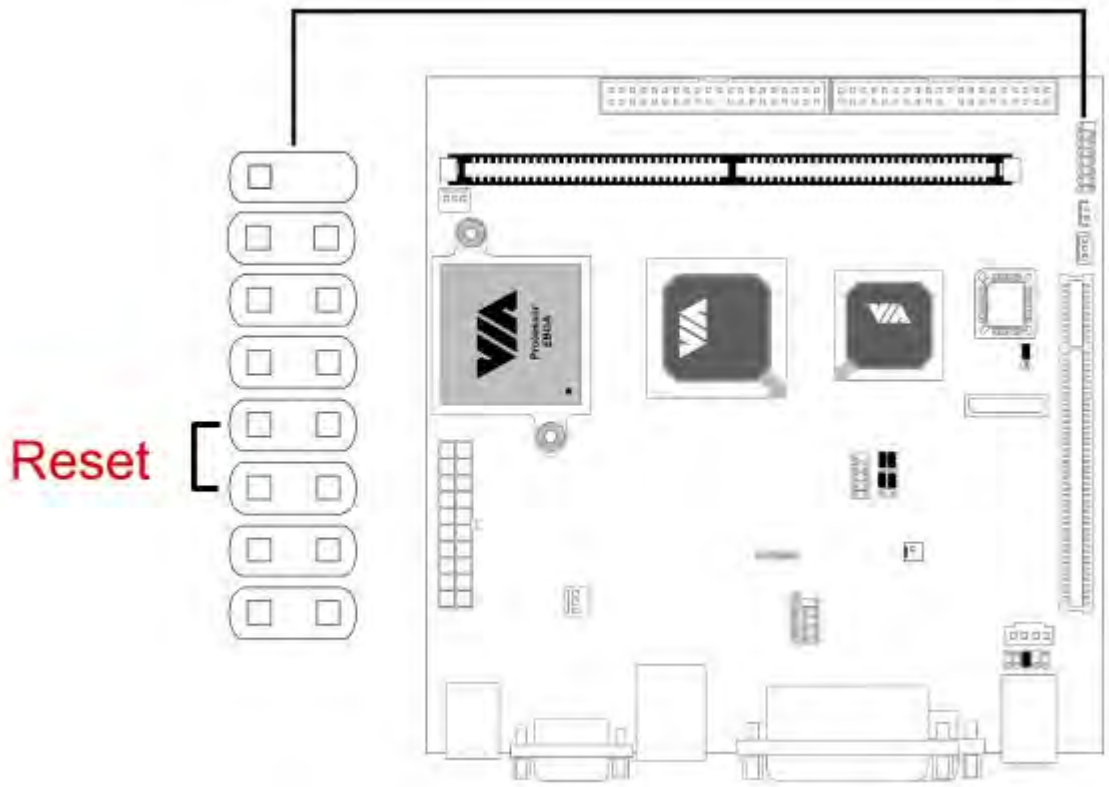
Applicable to:
- Videotronic 16-bit
- Videotronic CE

PART LIST
PC keyboard

1. Connect keyboard to EPIA board

2. Switch on the machine (*)

(*) In case of the PC does not start even if power supply is running, short circuit (with a jumper or a screwdriver) the pins indicated on the drawing (Reset)



3. Enter to the Setup by pressing **Delete** key when **VIA** logo is showing

4. Select **Load Optimized Defaults** and Press **Enter,** press **Y** key to confirm

5. Select the item **Advanced BIOS Features** and press **Enter**

6. Set the item **Quick power on self test** on **Disabled**

7. Set the item **First Boot Device** to **USB-FDD**

8. Set the item **Second Boot Device** to **CD ROM**

9. Set the item **Third Boot Device** to **HDD-O**

10. Exit from **Advanced BIOS Features** by pressing **Esc** key

11. Select the item **Advanced Chipset Features** and press **Enter**

12. Set the item **Panel Type** to **1280x768**
13. Exit from **Advanced Chipset Features** by pressing **Esc** key
14. Select the item **Integrated Peripherals** and press **Enter**
15. Set the item **Onboard Lan Boot ROM** to **Disabled**
16. Exit from **Integrated Peripherals** by pressing **Esc** key
17. Select **Power Management Setup** and press **Enter**
18. Set the item **AC Loss Auto Restart** to **On**
19. Exit from **Power Management Setup** by pressing **Esc** key
20. Press **F10** key to save. Press **Y** to confirm

FASEP Tech Doc 0156

Setup EPIA - LN 10000 board for Videotronic

1. Connect keyboard to EPIA board

2. Switch on the machine (*)
(*) In case of the PC does not start even if power supply is running, short circuit (with a jumper or a screwdriver) the pins indicated on the drawing (Reset)

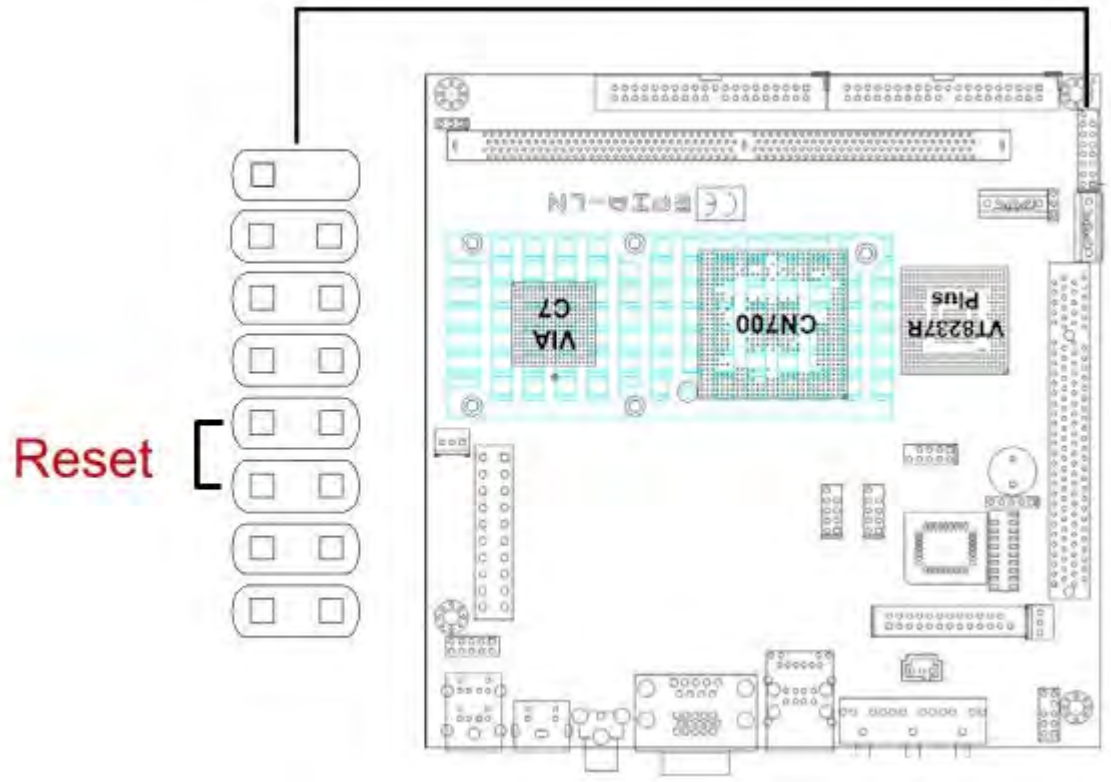


Fig. 1

3. Enter to the Setup by pressing **Delete** key when **VIA** logo is showing

4. Select **Load Optimized Defaults** and Press **Enter**

5. Press **Y** key to confirm

6. Select **Standard CMOS Features** and press **Enter**

7. Set **Date and Time** and press **Esc**

8. Select **Power Management Setup** and press **Enter**

9. Set the item **AC Loss Auto Restart** to **On**

10. Exit from **Power Management Setup** by pressing **Esc** key

11. Press **F10** key to save. Press **Y** to confirm

FASEP Tech Doc 0157

Setup EPIA - LN 10000 board for Videotronic.CE

1. Connect keyboard to EPIA board

2. Switch on the machine (*)
(*) In case of the PC does not start even if power supply is running, short circuit (with a jumper or a screwdriver) the pins indicated on the drawing (Reset)

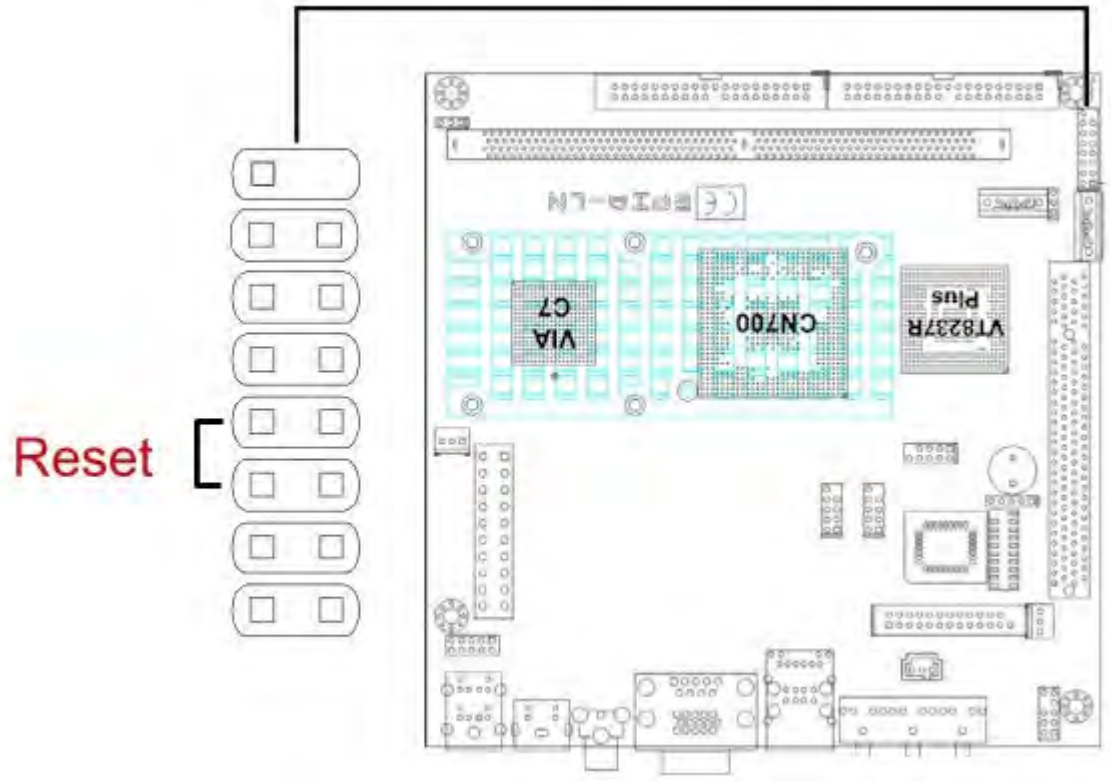


Fig. 1

3. Enter to the Setup by pressing **Delete** key when **VIA** logo is showing

4. Select **Load Optimized Defaults** and Press **Enter**

5. Press **Y** key to confirm

6. Select the item **Integrated Peripherals** and press **Enter**

7. Set the item **USB emulation** to **Off**

8. Exit from **Integrated Peripherals** by pressing **Esc** key

9. Select **Power Management Setup** and press **Enter**

10. Set the item **AC Loss Auto Restart** to **On**

11. Exit from **Power Management Setup** by pressing **Esc** key

12. Press **F10** key to save. Press **Y** to confirm

FASEP Tech Doc 0122

How to adjust ALU-SE sensors on VDT 10/16 Bit

Applicable to: all units VDT 10/16 Bit

How to proceed

Version 7.1d or lower
MAIN PAGE > UTILITY > DIAGNOSTIC > ADC TEST

```
ADC TEST

ANALOG-DIGITAL CONVERTER (PCB 1137, location U7)

PIEZO PX2          (PIN  2) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)
PIEZO PX1          (PIN  3) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)
ALU SE DISTANCE    (PIN  4) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)
ALU SE DIAMETER    (PIN  5) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)
SME DISTANCE       (PIN  6) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)
SME DIAMETER       (PIN  7) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)
RESERVED           (PIN  8) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)
RESERVED           (PIN  9) ==>     0 (0.000 Volt)  Vpp ==>     0 (0.000 Volt)

 KEY 1 ==> RESET Vpp    KEY 2 ==> PIEZOES VOLTAGE    ANY OTHER KEY ==> EXIT
```

Version 7.1e or higher
MAIN PAGE > UTILITY > DIAGNOSTIC > SENSOR

```
                          SENSOR TEST

 1. MOTOR SPEED       : 41 RPM (Last Speed 96 RPM)

 2. ALU-SE SYSTEM     : OFF
 3. ALU-SE DISTANCE   : 32253 - 2.461V ◄► Vpp: 00000 - 0.000V ◄► 000mm
 4. ALU-SE DIAMETER   : 00000 - 2.461V ◄► Vpp: 00000 - 0.000V ◄► 000mm  0.0'

 5. SME SYSTEM        : OFF
 6. SME DISTANCE      : 32261 - 2.461V ◄► Vpp: 00000 - 0.000V ◄► 000mm
 7. SME DIAMETER      : 32265 - 2.462V ◄► Vpp: 00000 - 0.000V

 8. LASER HOME        :

 9. ZERO ENCODER      : OFF
10. POSITION SENSOR   : 100↑ (200)
11. PX 1 VALUE  (P01): 32245 - 2.460V ◄► Vpp: 00000 - 0.000V
12. PX 2 VALUE  (P02): 32249 - 2.460V ◄► Vpp: 00000 - 0.000V
13. PX 1 VPP    (PS1): 32.532 Volt
14. PX 2 VPP    (PS2): 32.456 Volt
15. PX 1 CALIB  (C01): 2.484 Volt
16. PX 2 CALIB  (C02): 2.484 Volt
17. PX 1 ASCENT (TS1): 52%
18. PX 2 ASCENT (TS2): 52%

19. SAFETY COVER      : DISABLED

20. PEDAL (PNEU ONLY):
21. PNEU-LOCK         :
22. PRESSURE SENSOR   :

23. TILT ENABLE VDT   :
24. TILT ENABLE 1142  :

Key 1: Reset VPP                          Any other Key: Exit
```

Remove weight tray

Adjustment of Distance sensors

1. Untighten the 2 screws locking the potentiometer
2. Lift the sensor to free it from the gear
3. Turn the sensor to obtain a **GREEN** value in DISTANCE figure on the screen when ALU-SE gauge is in zero position. When Distance values are **red** when ALU-SE gauge is in zero position, potentiometers must be adjusted.
4. Lock the sensor

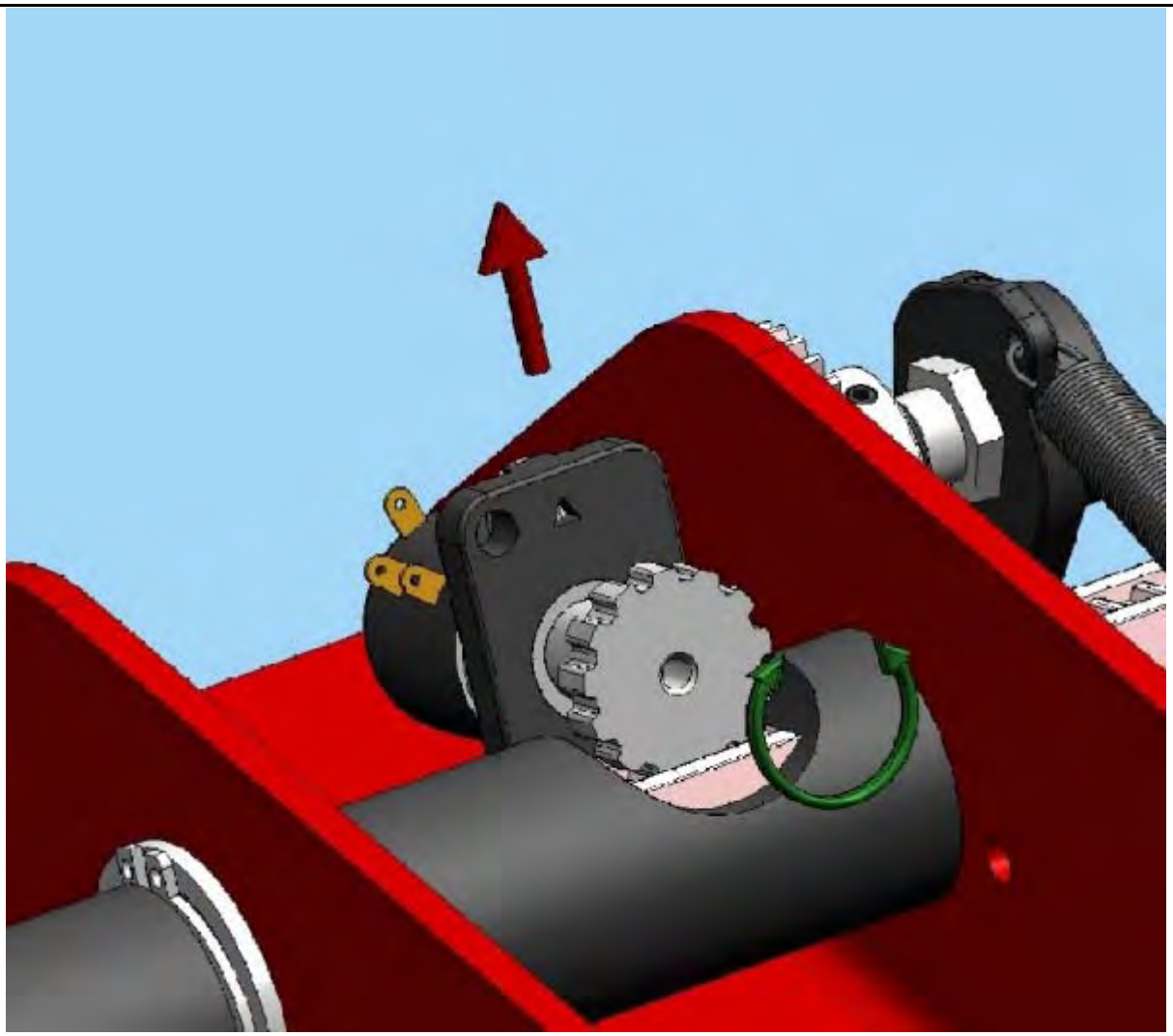


fig. 1

Adjustment of Diameter sensors

1. Lift the sensor to free it from the gear as indicated in the picure
2. Turn the sensor to obtain a **GREEN** value in DIAMETER figure on the video when ALU-SE gauge is in zero position.
3. Put the sensor back onto the gear

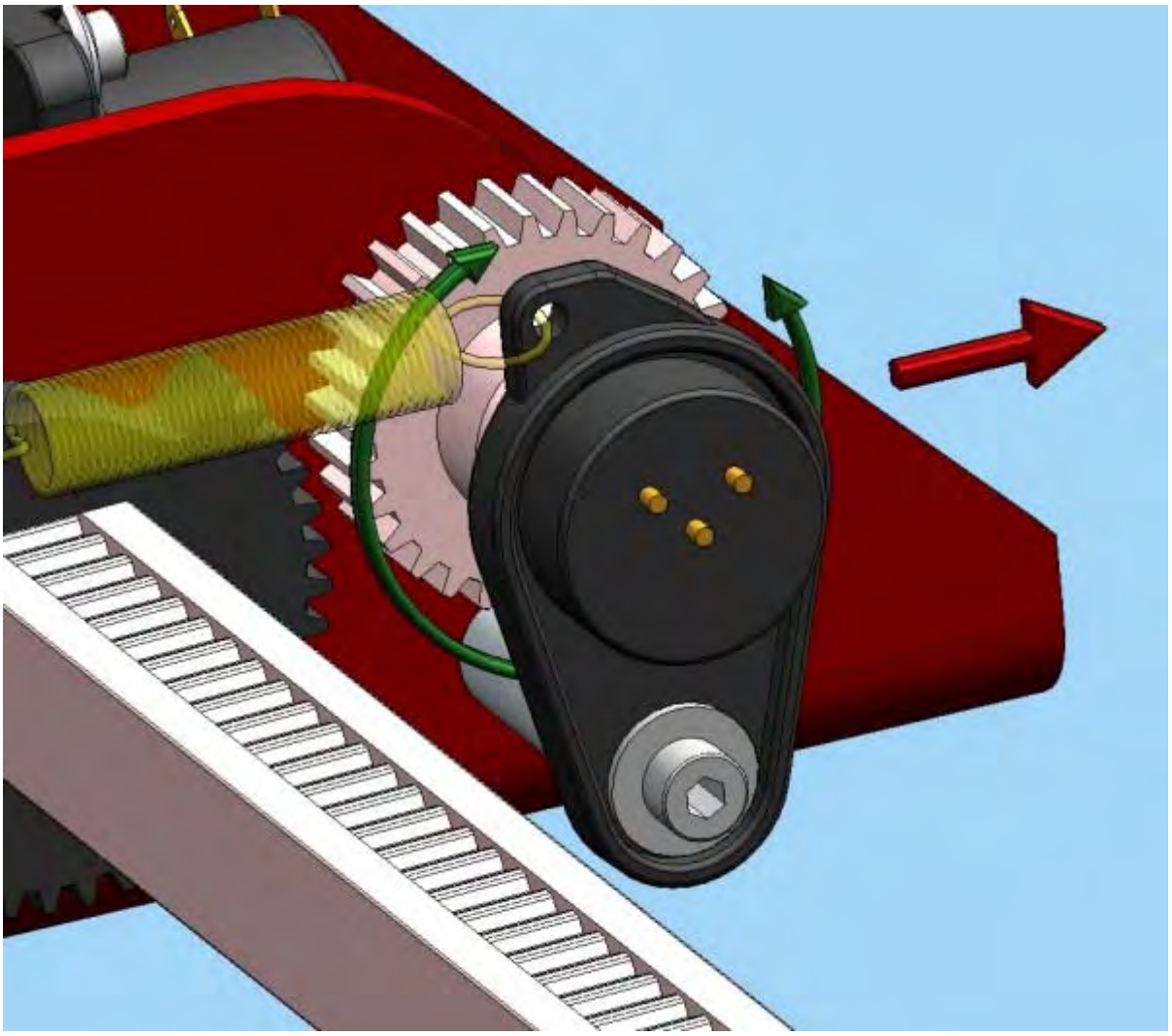


fig. 2

Calibrate the ALU-SE rod
see tech doc 0037

Come disabilitare il sistema LASER su VDO

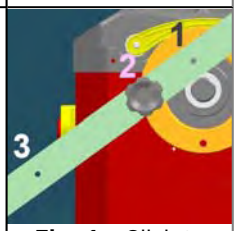
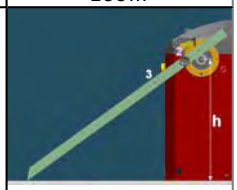
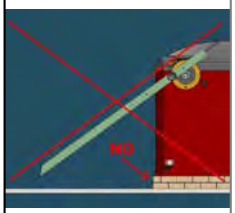
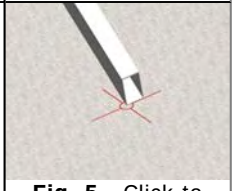
1. Accendere la macchina
2. Premere il tasto **2 - UTILITY**
3. Premere il tasto **6 - DIAGNOSTIC**
4. Premere il tasto **1 - MENU**
5. Premere il tasto **2 - USER SETUP**
6. Inserire la password **1324**
7. Selezionare la voce **14: INDICATORE LASER**
8. Selezionare la voce **0: INDICATORE LASER DISABILITATO**
9. Selezionare la voce **0: USCITA** seguendo le indicazioni sullo schermo
10. Premere il tasto **6 - EXIT**
11. Premere un tasto per far ripartire il programma

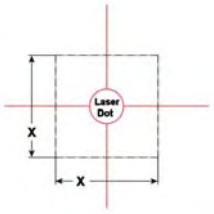
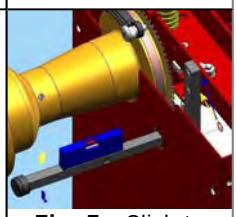
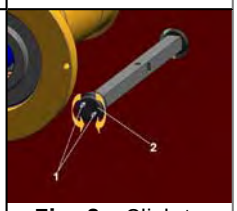
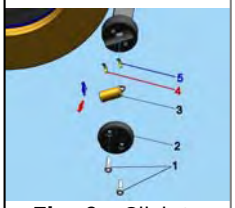
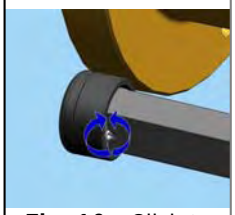
❊

How to disable LASER system on VDO

1. Switch ON the machine
2. Press the key **2 - UTILITY**
3. Press the key **6 - DIAGNOSTIC**
4. Press the key **1 - MENU**
5. Press the key **2 - USER SETUP**
6. Insert the password **1324**
7. Select the item **14: LASER INDICATOR** following the instruction on the screen
8. Select the item **0: LASER INDICATOR DISABLED** following the instruction on the screen
9. Select the item **0: EXIT** following the instruction on the screen
10. Press the key **6 - EXIT**
11. Press any key to restart the program

FASEP Tech Doc 0117

Controllo / regolazione Laser per Videotronic	**How to check / adjust Laser system on Videotronic**	
Applicabile a: - tutti i modelli Videotronic 10-bit/16bit equipaggiati con Laser	**Applicable to:** - all Videotronic 16-bit equipped with Laser	
INTRODUZIONE: nessuna	**INTRODUCTION**: none	
MATERIALE NECESSARIO - **3m3156** kit Calibrazione Laser - Versione software **6.4f** o superiore	**PART LIST** - **3M3156** Laser Calibration Kit - Software version **6.4f** or higher	
Procedura	**Procedure**	
Posizionare il Kit come mostrato in **Fig.1**, **Fig. 2 e Fig. 4.** Assicurarsi che la barra sia perfettamente appoggiata all'albero (**Fig. 1 e Fig. 2**) e alla flangia (**Fig. 3**).	1. Place the Kit as showed in **Fig.1**, **Fig.2** and **Fig.4**. Make sure the rod is touching the shaft (**Fig.1** and **Fig.2**) and the flange (**Fig.3**).	 **Fig. 1** - Click to zoom
Scegliere il foro di bloccaggio del Kit Calibrazione Laser, in base alla tabella seguente. **h = 696 mm >** hole N.**1** **h = 650 mm >** hole N.**2** **h = 550 mm >** hole N.**3** **h = 630 mm >** hole N.**4** **h =** altezza dell'albero come mostrato in **Fig.2**	Choose the correct hole to lock the Laser Calibration Kit, according to the table below. **h = 696 mm >** hole N.**1** **h = 650 mm >** hole N.**2** **h = 550 mm >** hole N.**3** **h = 630 mm >** hole N.**4** **h =** height of the shaft as showed in **Fig.2**	 **Fig. 2** - Click to zoom  **Fig. 3** - Click to zoom
Accendere la macchina. Selezionare MENU PRINCIPALE > UTILITY > DIAGNOSTIC > MENU > CHECK LASER (LASER CALIBRATION)	Switch ON the machine. Select MAIN MENU > UTILITY > DIAGNOSTIC > MENU > CHECK LASER (LASER CALIBRATION)	 **Fig. 4** - Click to zoom
Segnare, es. con un pennarello, il punto dove la barra di calibrazione tocca il pavimento (**Fig.5**).	Sign, ex. using a marker, a reference point where the calibration rod touching the floor (**Fig.5**).	 **Fig. 5** - Click to zoom
Il punto indicato dal laser deve corrispondere con il segno di riferimento fatto precedentemente (per la tolleranza vedere **Fig. 6** e la tabella seguente). **h = 696 mm > X** = 15 mm **h = 650 mm > X** = 13 mm **h = 550 mm > X** = 12 mm	The laser dot must correspond with the reference mark previously signed (for the tolerances, see **Fig. 6** and table below). **h = 696 mm > X** = 15 mm **h = 650 mm > X** = 13 mm **h = 550 mm > X** = 12 mm	

h = 630 mm > X = 13 mm **h =** altezza dell'albero come mostrato in **Fig.2**	**h = 630 mm > X =** 13 mm **h =** height of the shaft as showed in **Fig.2**	 **Fig. 6** - Click to zoom
Controllo Parallelismo Asta		
Estrarre l'asta LASER : selezionare MENU PRINCIPALE > UTILITY > DIAGNOSTIC > MENU > LASER OUT. Posizionare la livella sull'asta laser (tutta fuori). L'asta deve essere parallela all'asse del gruppo oscillante. Regolare l'asta laser posizionando una o più rondelle a spessore (**Fig. 7**).	Pull out the Laser: MAIN MENU > UTILITY > DIAGNOSTIC > MENU > LASER OUT. Place the bubble level on the Laser rod. Laser rod must be parallel to the balancer shaft. Adjust the laser using washers (**Fig.7**)	 **Fig. 7** - Click to zoom
Regolazione del puntatore	**How to adjust the laser pointer**	
Regolazione verticale Sbloccare le due viti mostrate in **Fig. 8.** Ruotare la testina del laser finché il laser non illumina la corretta posizione. Bloccare le due viti (**Fig.8**) con delicatezza. Verificare la posizione. Ripetere l'operazione se necessario.	*Vertical adjust* Unlock the two screws (**Fig. 8**). Rotate the laser head until the laser dot reaches the right position. Lock the two screws (**Fig. 8**) softly. Check laser dot position. Repeat operation if needed.	 **Fig. 8** - Click to zoom
Attenzione: questa istruzione è applicabile a laser con lotto 4617 o precedente (prodotto prima del 30nov2006) *Regolazione orizzontale* Rimuovere le viti (n.1) della testina del gruppo laser (**Fig. 9**). Utilizzare uno spessore (es. un pezzetto di carta) per regolare il punto del laser. Bloccare leggermente le due viti della testina laser(**Fig. 8**). Verificare la posizione. Ripetere l'operazione se necessario.	**Warning:** this instruction applicable to laser with Lot 4617 or before, produced before 30/11/2006 *Horizontal adjust* Remove the screws of the laser (**Fig.9**). Place a shim (ex. a thin piece of paper is ok) to adjust the position of the laser dot. Lock the two screws (**Fig. 8**) softly to check the laser dot position. Repeat operation if needed.	 **Fig. 9** - Click to zoom
Attenzione: questa istruzione è applicabile a laser con lotto 4618 o superiore (prodotto dopo il 30nov2006) *Regolazione orizzontale* Svitare leggeremente le due viti (**Fig.8**) per sbloccare la testina. Girare il grano posto dietro la testina laser (**Fig.10**) per effettuare la regolazione orizzontale. Bloccare le due viti (**Fig.8**) con delicatezza. Verificare la posizione. Ripetere l'operazione se necessario.	**Warning:** this instruction applicable to laser with Lot 4618 or higher, produced after 30/11/2006 *Horizontal adjust* Unlock the two screws as showed in **Fig. 8.** Adjust the screw on the back of laser head to adjust the laser head horizontally (**Fig.10**). Lock the two screws (**Fig. 8**) softly. Check laser dot position. Repeat operation if needed.	 **Fig. 10** - Click to zoom
Controllo finale	**Final check**	
Selezionare MENU PRINCIPALE > UTILITY > DIAGNOSTIC > MENU > CHECK LASER (LASER CALIBRATION) Verificare che il puntatore corrisponda con il punto di riferimento sul pavimento. Premere CHECK LASER > (LASER FLANGE CONTROL) Verificare che il fascio laser non tocchi la flangia.	Select MAIN MENU > UTILITY > DIAGNOSTIC > MENU > CHECK LASER (LASER CALIBRATION) Make sure the laser dot correspond with the reference mark on the floor. Press CHECK LASER > (LASER FLANGE CONTROL) Make sure that the laser beam does not touch the flange.	
ATTENZIONE: il serraggio delle viti deve essere fatto con delicatezza.	**WARNING**: tighten bolts softly.	

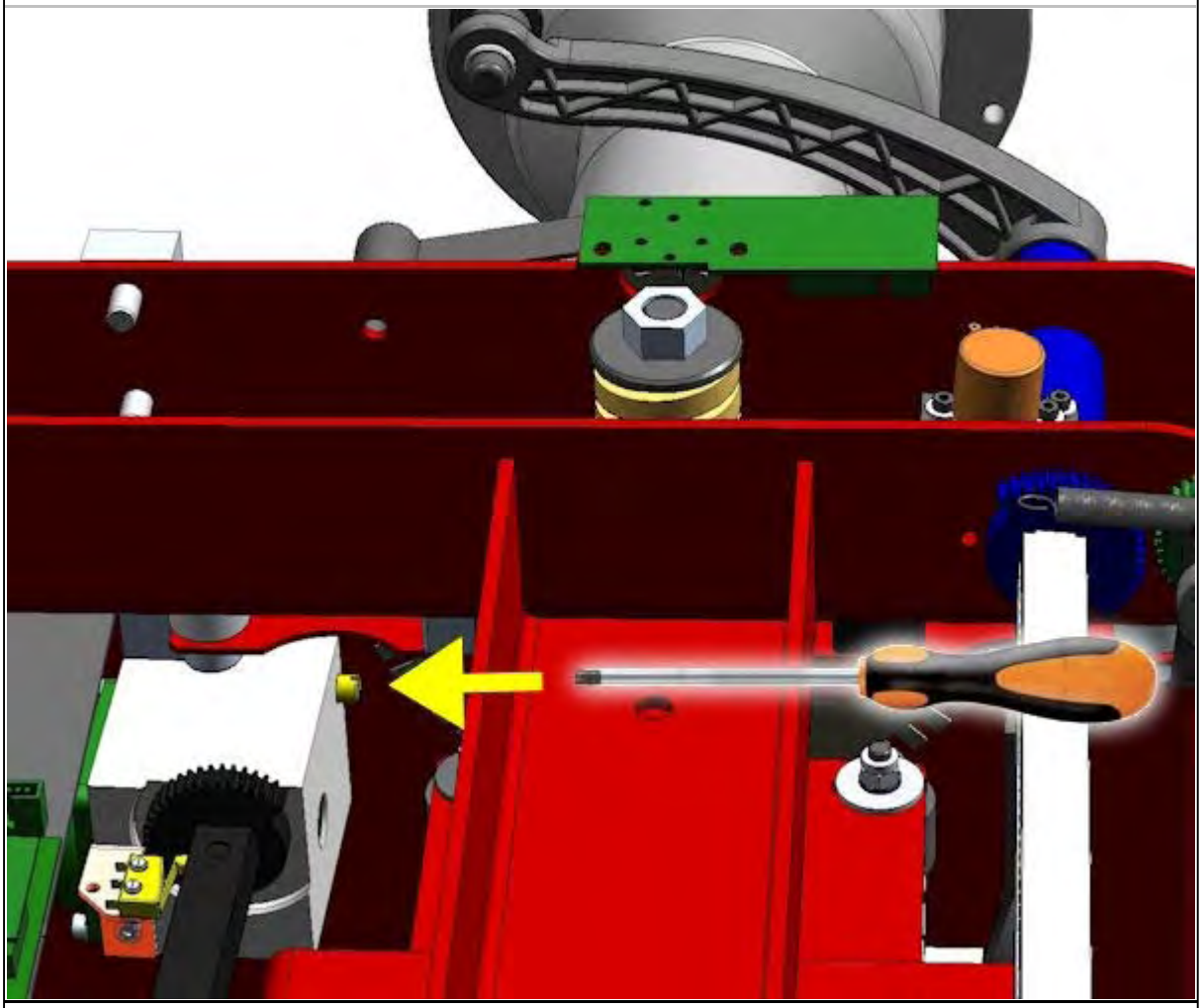
FASEP Tech Doc 0171

How to adjust Ball/Spring Plunger on Laser

Applicable to: all units Balatron 16 Bit, Videotronic 10-bit, Videotronic 16-bit , Videotronic CE with Laser

1. Remove weight tray

2. Locate the Ball / Spring plunger



3. adjust the Ball/Spring Plunger (the bolt must touch the laser rod and then to be tightened 1/4 turn)

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Home > Reserved Area > Wheel Balancers > Videotronic 16-bit > Information Center (7.2 or higher)
latest update 19/05/09

Videotronic CE Information Center

Information Center

Start menu > Setup > Info Center

Information Center

GENERIC INFO	
Date/Time:	08\01\2009 17:49
Serial Number:	E55710081212 - F6A16459
Software version:	1.1e (29/05/2008)
Enabled software:	1.x - Level 3
Hardware version:	Generic PC board - MAC Address: 00-40-63-F7-E3-ED
I/O board vers:	1137 board - Fw vers. 2.1f
Extension board:	1142 board - Fw vers. 1.3
CPU type:	INTEL Pentium II - Lev. 13
Windows version:	WINDOWS CE Vers. 5.0
Hard disk info:	Total 487 MB (Free 452 MB - Used 35 MB)
Memory info:	Total 87 MB (Free 61 MB)
Binary file info:	nk.bin (10467775 bytes)
STATISTICS	
First PC startUp:	16\12\2008
Total working:	19h 39m 1/5
Number spins:	22 - Successful: 3 (13.6%)
Partial spins:	22 - Successful: 3 since 16/12/2008 (13.6%)
Total calib:	1 (Last calibration: 16/12/2008)
Last check calib:	16/12/2008
Total pneu-lock :	8
ACTIVATIONS	
Alu-SE Rod:	Enabled
SME Rod:	Enabled
Laser System:	Enabled
Car/Truck:	Disabled
Service Interval:	Disabled
SENSOR	
Piezo 1:	P01=2.48333 - C01=2.48623 - TS1=99%
Piezo 2:	P02=2.64492 - C02=2.49004 - TS2=99%
TECH SETUP	
Mechanical assy:	6: HD2 CAR-TILT 2/5
Spin type:	Automatic 1Ph + EMB
Pneu Look:	Disabled
Cut Off:	2
Carter:	Enabled
USER SETUP	
Language:	Italiano

Click to open SENSOR page

Serial Number	serial number of the wheel aligner
SW Version	current software version of the wheel balancer (latest version here)
Enabled version	**1.x** : indicates that wheel balancer can accept all upgrades for software version 1.x. It will not accept numbered 2.x without an activation code. **Not Activated** : the software is not activated. An activation code is needed to activate the unit. **Level 0 / 1 / 2**: indicates the software level activated (that is the type of functions available).
HW Version	PC card type and PC MAC address
I/O board Version	indicates the type of Interface card and its firmware version
Expansion Board	indicates the expansion board type (1139 / 1142) and its firmware version
Windows Version	indicates the WindowsCE version
Mechanical Assy	indicates the type of mechanical assy selected
Start up time	the first time the unit was started.
Working time	the number of working hours performed since the first start up.
Spins executed	the number of wheel spins performed since the first start up.
Spins successful	the number of wheel balanced since the first start up
Motor Speed	the speed of the motor (rpm = revolution per minute)
Measuring system	the type of automatic data gauge (distance + diameter + width)
Board Connection	indicates the board where used
Diameter correction	
Distance correction	
Safety cover	enabled / disabled
Positioning system	manual / APS (APS = automatic positioning system)
Service Interval	indicates the current settings for Service interval function.

Error 17 - 'Bar not in position'

Author:
Fasep 2000 srl

Created On: 02 Oct 2007 09:46 AM

Applicable to: Balatron 16-bit, Videotronic 10-bit, Videotornic 16-bit, Videotronic CE

1.
Cause : the measuring bar (input gauge) is not in zero position
Solution : move the measuring bar to zero position

2.
Cause : the measuring bar is not calibrated
Solution : calibrate the measuring bar

3.
cause: the distance/diameter sensor is not adjusted
solution: adjust the distance/diameter sensor

Balatron 16-bit: http://www.fasep.it/tech-doc/td0134.asp
Videotronic 10-bit / 16-bit: http://www.fasep.it/tech-doc/td0122.asp

Error 32 - Service Lock

Author:
Fasep 2000 srl

Created On: 06 May 2008 09:23 AM

Applicable to: Videotronic.CE, Balatron 16-bit

Situation: the unit is locked after reaching the service interval

Cause: the unit has reached the maximum limit of service interval

Solution: enter the Service Reset Code into the machine

How to get Activation / Service reset code:
http://support.fasep.it/kb/index.php?_m=knowledgebase&_a=viewarticle&kbarticleid=264&nav=0

Error 35 - Width Input gauge not in home position

Author:
Fasep 2000 srl

Created On: 16 Apr 2008 06:02 PM

Applicable to : Balatron 16-bit, Videotronic

Situation: the machine has just been switched on and E35 appears on the display

1.
Cause: the width input gauge was found out of home position at the time of start up of the wheel balancer
Solution: put the input gauge in home position

2.
Cause: the width input gauge is not calibrated
Solution: calibrate the input gauge

Error 38 - Activation required

Author:
Fasep 2000 srl

Created On: 22 Apr 2008 10:45 AM

Applicable to : Videotronic CE

Situation: you have just installed a new software on Videotronic CE

Cause: the new software requires an activation code

Solution: insert the activation code (to be required to FASEP)

Error message 'CMOS checksum error - default loaded... ...

Author:
Fasep 2000 srl

Created On: 27 Jan 2009 09:15 AM

Applicable to : Videotronic 16-bit / Videotronic CE

Situation: The error message appear on the monitor when balancer is switched on

Cause:
The CMOS battery went low and BIOS memory was corrupted.

Solution:
connect a keyboard and setup the motherboard bios correctly (AC Loss Auto Restart must be On)

http://www.fasep.it/reserved/wb/pcb/9E3233.asp

Note: battery may need to be replaced